

UV CURABLE MATERIALS



Double Bond Chemical is a global leading chemical manufacturer with ISO 9001:2015 and ISO 14001:2015 certificate. Our business portfolio comprises 4 segments: polymer additives, UV curable materials, inkjet printing inks and electronic chemicals. At DBC, we provide professional total solutions to chemical problems and develop eco-friendly manufacturing processes and materials for a sustainable future and social responsibility.



Polymer Additives



UV Curable Materials



Digital Printing Inks



Electronic Chemicals



- Company establishment: 1994
- Headquarters: New Taipei City, Taiwan
- Public listing in Taiwan: 2018
- Capital: USD 28 Million
- Employees: 400 people

■ Dafeng factory in CHINA



■ Yilan factory in TAIWAN

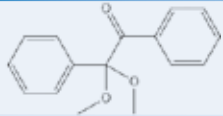
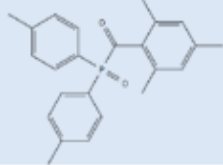
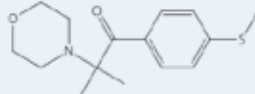
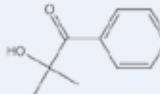
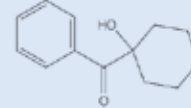
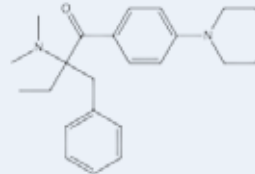
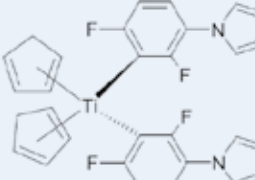
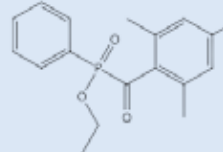
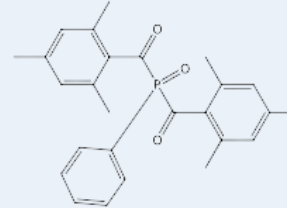


Contents

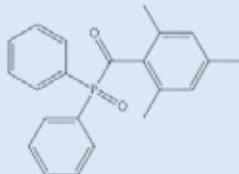
2	Photoinitiators
2	Free Radical (Norrish I)
4	Free Radical (Norrish II)
6	Cationic
6	Amine Synergists
10	Monomers
10	Monofunctional
10	Difunctional
12	Multifunctional
12	Oligomers
12	Epoxy Acrylates
14	Polyester Acrylates
16	Full Acrylates
18	Urethane Acrylates
20	Formulated Acrylates
22	Total Formulation
24	High Refractive Index Acrylate
24	Waterborne Oligomers and Materials
26	Cationic Monomers and Oligomers
26	Additives
32	UV Curable Application



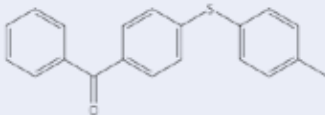
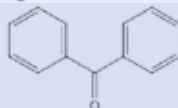
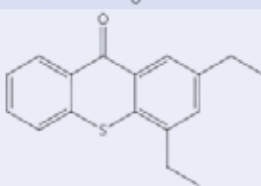
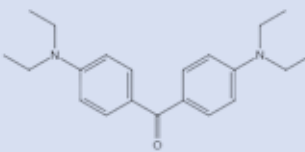
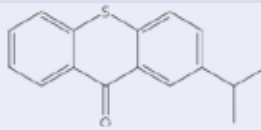
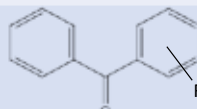
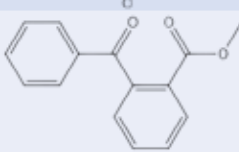
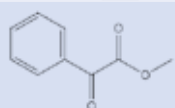
Photoinitiators (Free Radical Type - Norrish I)

Grade	Chemical Structure	CAS No.	Features and Applications	Physical Properties				
				Appearance	Molecular Weight	λ_{max} (nm)	Melting Point (°C)	Boiling Point (°C)
Doublecure BDK		24650 - 42 - 8	- Good through cure - Pigmented system - Ink, coating, adhesive and electronic applications	White crystal	256	255 / 340	64 - 67	305
Doublecure CQ	-	-	- Non - yellowing photoinitiator - For visible light curing system	Yellow crystalline powder	-	-	190 - 210	-
Doublecure LED385	-	-	LED curing system	Yellow powder	-	385	-	-
Doublecure TPO		75980 - 60 - 8	- Good through cure - Non - yellowing photoinitiator - Ink, coating, adhesive and electronic applications	Yellow crystalline powder	348	382	87 - 95	-
Doublecure TPO-L	-	-	- Good through cure - Non - yellowing photoinitiator - Ink, coating, adhesive and electronic applications	Clear liquid	-	379	-	> 130
Doublecure 73W	-	-	- Water - based DC 173 - Water - based coating for metal, plastic, wood and adhesive applications	Yellowish to brown clear liquid	289 / 327	-	-	-
Doublecure 107		71868 - 10 - 5	- Pigmented system - UV ink and solder mask applications	White crystalline powder or granule	279	231 / 307	70 - 76	> 300
New Doublecure 117	-	-	- Excellent curing effect - Good compatibility - Convenient to use	Yellow liquid	-	-	-	-
Doublecure 173		7473 - 98 - 5	- Good solvency and surface cure - Non - yellowing photoinitiator - Ink, clear coating, adhesive and electronic applications	Light yellow and clear liquid	164	253 / 335	< - 100	252
Doublecure 184		947 - 19 - 3	- Good surface cure - Non - yellowing photoinitiator - Clear coating for paper, flooring, metal, plastic and wood application	White to off - white crystalline powder	204	255 / 330	46 - 50	316
Doublecure 369		119313 - 12 - 1	- Hight absorptivity - Pigmented system - UV ink, adhesive, photoresist and printing plate applications	Pale yellow powder	367	330	108	-
Doublecure 550	Mixture of photoinitiators	947 - 19 - 3 119 - 61 - 9	- Mixture of DC 184 and DC BP - Clear coating for paper, flooring, metal, plastic, wood and water - based application	Light yellow liquid	-	255 / 330	-	> 300
Doublecure 784		125051 - 32 - 3	- Wide absorption band from 390 - 550nm - Visible light curing system - Ink and coating for electronic applications	Yellow to orange powder	534	405 / 480	165 - 170	-
Doublecure 1256		84434 - 11 - 7	- Good through cure - Non - yellowing photoinitiator - White and clear system - Similar performance to DC TPO but in liquid form	Yellow liquid	316	374	- 12	257
Doublecure 1819		162881 - 26 - 7	- Pigmented system - Ink, coating and 3D printing applications	White to yellowish powder	419	205	127 - 135	> 168

Photoinitiators (Free Radical Type - Norrish I)

Grade	Chemical Structure	CAS No.	Features and Applications	Physical Properties				
				Appearance	Molecular Weight	λmax (nm)	Melting Point (°C)	Boiling Point (°C)
Doublecure 1819DW	-	-	- Water - based dispersion of DC 1819 - Pigmented and water - based PU dispersion	Light yellow liquid	-	-	-	-
Doublecure 3907	-	-	- Pigmented system - Replacement of DC 107 - UV ink and solder mask applications	Light yellow to yellow liquid	-	235 / 320	-	-
PhiCure TMO		270586-78-2	- LED-curing - Electronics - Combined material - White coloring 3D-printing - Colored system	Light yellow crystal powder	376.4	-	126-131	-

Photoinitiators (Free Radical Type - Norrish II)

Grade	Chemical Structure	CAS No.	Features and Applications	Physical Properties				
				Appearance	Molecular Weight	λmax (nm)	Melting Point (°C)	Boiling Point (°C)
Doublecure BMS		83846 - 85 - 9	- White and pigmented system - DC EPD can be applied together to enhance curing speed - Good solubility and low odor - Ink, coating and electronic applications	White crystalline powder	304	246 / 315	75 - 85	-
Doublecure BP		119 - 61 - 9	- Economical photoinitiator - Amine synergist can be applied to enhance curing speed - Ink and coating applications	White to light yellow crystal or flake	182	255 / 330	47 - 49.5	-
Doublecure DETX		82799 - 44 - 8	- Pigmented system - Usually apply with DC EPD - Ink, coating, adhesive and electronic applications	Pale yellow powder	268	380	68 - 74	-
Doublecure EMK		90 - 93 - 7	- Act as a photosensitizer and amine synergist - Pigmented and black system - Photoresist dry film application	Yellow crystalline powder	324	377	≥ 92	-
Doublecure ITX		5495 - 84 - 1	- Pigmented system - Usually be applied with DC EPD - Ink, coating, adhesive and electronic applications	Pale yellow powder	254	380	72 - 75	-
Doublecure LBP		119 - 61 - 9 134 - 84 - 9 131 - 58 - 8	- Economical photoinitiator - Amine synergist can be applied together to enhance curing speed - Ink and coating applications	Clear to light yellow liquid	-	255 / 330	-	-
Doublecure OMB		606 - 28 - 0	- Odorless and non - yellowing photoinitiator - Fast curing speed - Food packaging applications	White to off - white crystalline powder	240	252	48 - 54	351
Doublecure 200		15206 - 55 - 0	- Non - yellowing photoinitiator - Good solvency - Ink, clear coating, adhesive and electronic applications	Light yellow and clear liquid	164	255	17	246 - 248



Photoinitiators (Cationic Type)

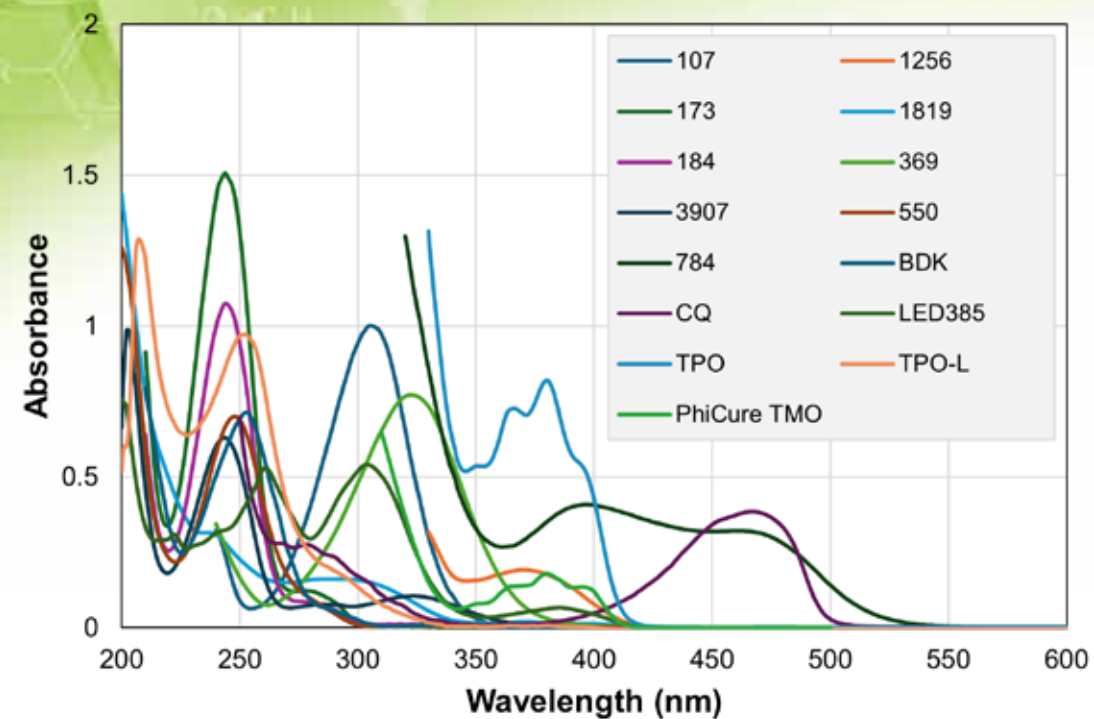
Grade	Chemical Structure	CAS No.	Features and Applications	Physical Properties				
				Appearance	Molecular Weight	λmax (nm)	Melting Point (°C)	Boiling Point (°C)
Doublecure 1130		60565 - 88 - 0	- Iodonium photoinitiator - Thin and clear coating on metal, glass, plastic and paper applications	White powder	454	237	> 160	-
Doublecure 1176		159120 - 95 - 3 108 - 32 - 7	- Sulphonium photoinitiator - Thin and clear coating on metal, glass, plastic and paper applications	Clear yellow to amber liquid	1,400	297	-	-
Doublecure 1190		74227 - 35 - 3 108 - 32 - 7	- Sulphonium photoinitiator - Thin and clear coating on metal, glass, plastic and paper applications	Clear yellow to amber liquid	846	271	-	-

Amine Synergists

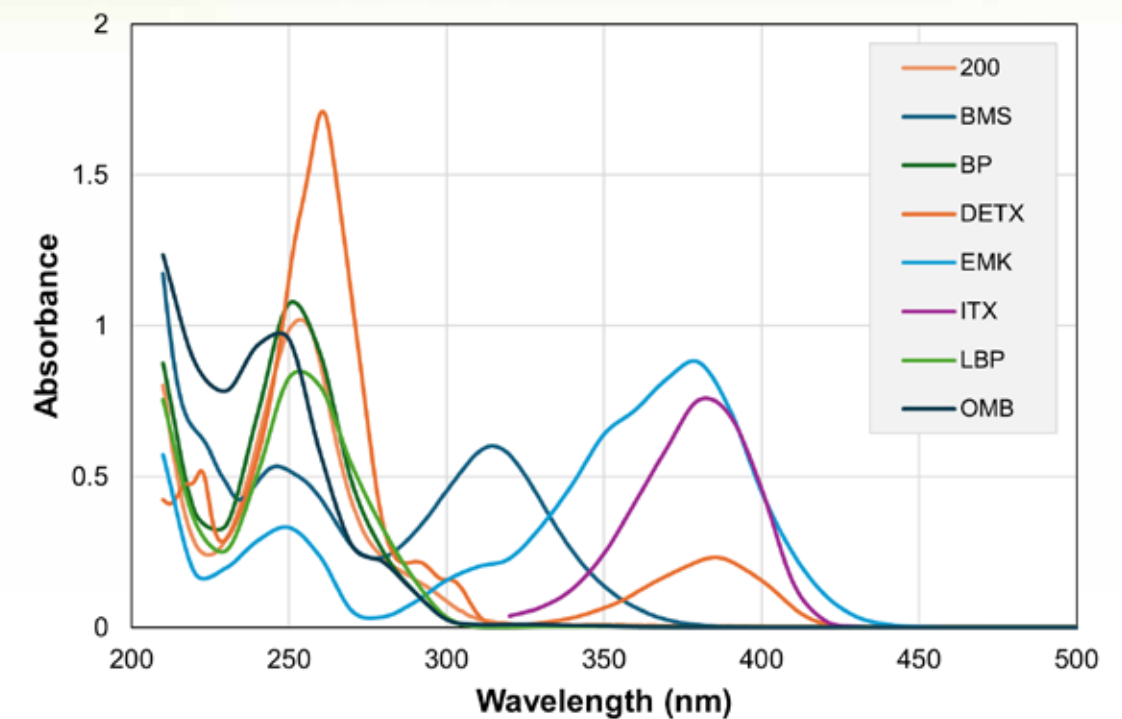
Grade	Chemical Structure	CAS No.	Features and Applications	Physical Properties				
				Appearance	Molecular Weight	λmax (um)	Melting Point (°C)	Boiling Point (°C)
Doublecure EPD		10287 - 53 - 3	- Pigmented system - Minimal yellowing - Usually apply with Norrish II type of photoinitiators	White crystalline powder	193	227 / 307	62 - 65	-
Doublecure OPD		21245 - 02 - 3	- Pigmented system - Minimal yellowing - Usually apply with Norrish II type of photoinitiators - Dry film and offset ink applications	Pale yellow liquid	277	220 / 310	- 25	325
Doublecure 115	-	-	- Reactive amine synergist - Odorless and enhanced curing speed	Clear yellowish liquid	-	-	-	-
Doublecure 225	-	-	- Reactive amine synergist - Odorless and enhanced curing speed	Yellow liquid	-	-	-	-



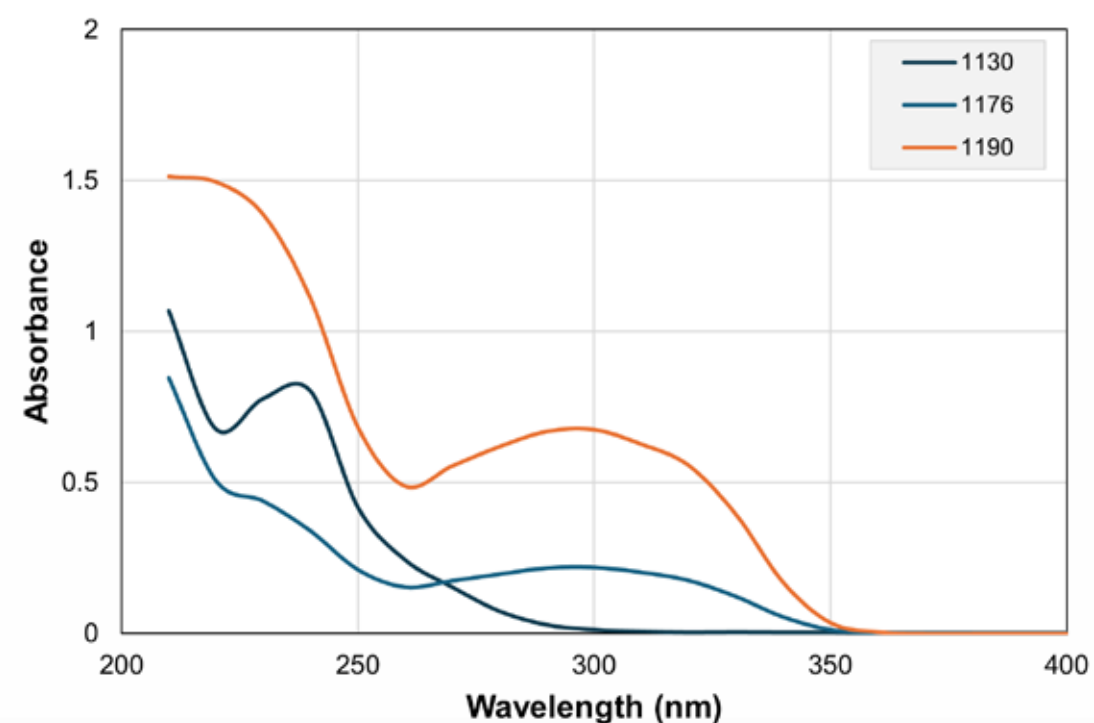
Free Radical Photoinitiators (Norrish I)



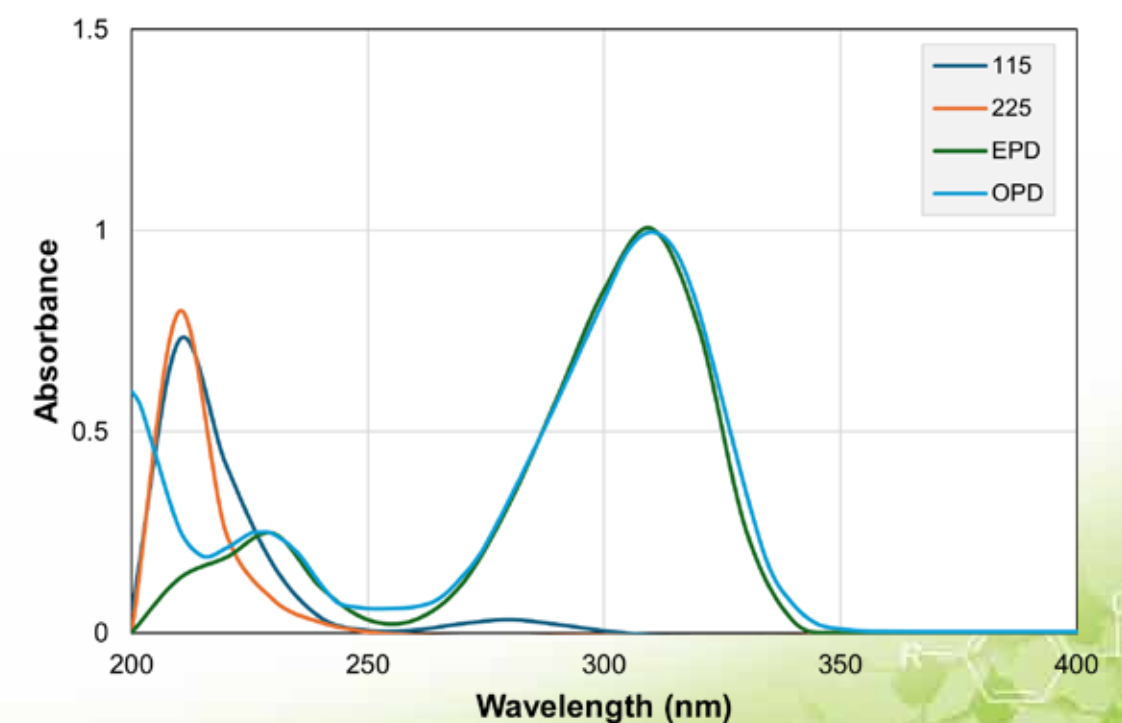
Free Radical Photoinitiators (Norrish II)



Cationic Photoinitiators



Amine Synergists





Monofunctional Monomers

Grade	Chemical Description	CAS No.	Features and Applications	Appearance	Color (APHA)	Acid Value (mg KOH / g)	Viscosity (cps @25°C)	Moisture (%)	Inhibitor (MEHQ, ppm)	Surface Tension (dyne / cm)	Refractive Index
Doublemer B-CEA	β - Carboxyethyl acrylate	24615 - 84 - 7	- Improve emulsion copolymer adhesion and latex stability - Low Tg (< 30°C)	Clear liquid	≤ 200	6.1 - 6.7 (Acid number, MEQ/ g)	70	÷ 1	900 - 1,100	-	-
Doublemer BPEA	2 - Phenylphenoxyethyl acrylate	72009 - 86 - 0	- High refractive index - Low odor and volatility - Diffuser plate, BEF and 3D printing application	Clear pale yellow liquid	≤ 100	≤ 0.5	100 - 200	≤ 0.1	500	44.0	1.5782
Doublemer EOEOEA	2 - (2 - Ethoxyethoxy) ethyl acrylate	7328 - 17 - 8	- Good flexibility, adhesion and water resistance - Low shrinkage - Ink, coating and PSA applications	Clear liquid	≤ 60	≤ 0.1	3 - 8	≤ 0.2	200 - 600	31.2	1.4360
Doublemer IBOA	Isobornyl ester	5888 - 33 - 5	- Good diluting ability and abrasion resistance - Low shrinkage - Ink and coating applications	Colorless to light yellow liquid	≤ 50	≤ 1.0	5 - 15	≤ 0.1	< 300	29.5	1.4738
Doublemer IBOMA	Isobornyl methacrylate	7534 - 94 - 3	- Good diluting ability and abrasion resistance - Low shrinkage - Ink and coating applications	Colorless to light yellow liquid	≤ 50	≤ 1.0	2 - 10	≤ 0.2	≤ 300	-	1.477
Doublemer LA	Lauryl acrylate	2156 - 97 - 0	- Good flexibility and water resistance - Low shrinkage - Ink, coating and adhesive applications	Clear liquid	≤ 100	≤ 0.5	4 - 8	≤ 0.1	150 - 250	29.3	1.4440
Doublemer PHEA	2 - Phenoxy ethyl acrylate	48145 - 04 - 6	- Good solvency and high reactivity - Screen ink, adhesive and photopolymer applications	Clear liquid	≤ 60	≤ 0.5	5 - 15	≤ 0.1	200 - 600	38.4	1.5170
Doublemer THFA	Tetrahydrofurfuryl acrylate	2399 - 48 - 6	- Good flexibility, weatherability and chemical resistance - Low volatility - Ink and coating applications	Clear liquid	10 - 80	≤ 0.5	3 - 12	≤ 0.2	400 - 800	36.1	1.4580
Doublemer 013	Monofunctional acrylate monomer	-	- Good adhesion, flexibility and diluting ability - Water - soluble property - Ink, coating and 3D printing applications	Clear to yellowish liquid	≤ 100	-	9 - 15	-	≤ 1,100	44.6	1.5080

Difunctional Monomers

Grade	Chemical Description	CAS No.	Features and Applications	Appearance	Color (APHA)	Acid Value (mg KOH / g)	Viscosity (cps @25°C)	Moisture (%)	Inhibitor (MEHQ, ppm)	Surface Tension (dyne / cm)	Refractive Index
Doublemer BPA(2EO)DMA	Ethoxylated (2 mol) bisphenol - A diacrylate	2448 - 20 - 2	- Good adhesion, hardness and chemical resistance - High reactivity - Low shrinkage - Ink, coating, adhesive, photoresist, solder mask and photopolymer application	Clear liquid	≤ 100	≤ 1.0	800 - 1,300	≤ 0.1	100 - 300	44.8	1.4675
Doublemer BPA(4EO)DA	Ethoxylated (4 mol) bisphenol - A diacrylate	64401 - 02 - 1	- Fast curing - Low odor, irritation and shrinkage - Adhesive, coating, photopolymer, photoresist and solder mask applications	Clear liquid	≤ 70	≤ 0.5	800 - 1,300	≤ 0.1	100 - 300	-	1.5360
Doublemer BPA(4EO)DMA	Ethoxylated (4 mol) bisphenol - A diacrylate	41637 - 38 - 1	- Good heat resistance - Low odor and volatility - Adhesive, photoresist and dental application	Clear liquid	≤ 200	≤ 0.5	450 - 750	≤ 0.1	100 - 300	42.9	1.5290
Doublemer DPGDA	Dipropylene glycol diacrylate	57472 - 68 - 1	- Low volatility and viscosity - Good diluting ability and fast curing - Ink, coating and adhesive applications	Clear liquid	≤ 80	≤ 1.0	7 - 13	≤ 0.1	400 - 600	32.4	1.4490
Doublemer HDDA	1,6 - hexanediol diacrylate	13048 - 33 - 4	- Good diluting ability, adhesion, elasticity and weatherability - Ink, coating and electronic applications	Clear liquid	≤ 60	≤ 0.3	5 - 10	≤ 0.1	100 - 250	34.5	1.4560
Doublemer NPG(2PO)DA	Propoxylated (2 mol) neopentyl glycol diacrylate	84170 - 74 - 1	- Low irritation and shrinkage - Ink, coating and electronic applications	Clear liquid	≤ 80	≤ 0.5	10 - 20	≤ 0.1	200 - 500	30.2	1.4467
Doublemer PEG(200)DA	Polyethylene glycol 200 diacrylate	26570 - 48 - 9	- Good reactivity, flexibility, elongation and dispersivity - Low volatility and irritation - Ink, coating and electronic applications	Clear liquid	≤ 70	≤ 0.5	10 - 30	≤ 0.2	≤ 600	42.6	1.4670
Doublemer PEG(200)DMA	Polyethylene glycol 200 dimethacrylate	25852 - 47 - 5	- Good flexibility, heat and chemical resistance - Low irritation - Ink, coating and electronic applications	Clear liquid	≤ 60	≤ 0.5	10 - 18	≤ 0.2	100 - 300	30.1	1.4620
Doublemer PEG(400)DA	Polyethylene glycol 400 diacrylate	26570 - 48 - 9	- Good reactivity, flexibility, elongation and dispersivity - Low volatility and irritation - Ink, coating and electronic applications	Clear liquid	≤ 100	≤ 0.5	30 - 70	≤ 0.3	400 - 600	40.0	1.4555
Doublemer PEG(600)DA	Polyethylene glycol 600 diacrylate	26570 - 48 - 9	- Good reactivity, flexibility, elongation and dispersivity - Low volatility and irritation - Ink, coating and electronic applications	Clear liquid	≤ 100	≤ 0.5	80 - 120	≤ 0.2	400 - 600	41.4	1.4689
Doublemer TPGDA	Tripropylene glycol diacrylate	42978 - 66 - 5	- Good flexibility and fast curing - Low volatility - Ink, coating applications	Clear liquid	≤ 50	≤ 0.5	8 - 16	≤ 0.2	100 - 500	32.0	1.4490
Doublemer TEGDMA	Triethylene glycol dimethacrylate	109 - 16 - 0	- Good flexibility, heat and chemical resistance - Low irritation and shrinkage - Dental, 3D and electronic applications	Clear liquid	≤ 80	≤ 0.5	5 - 15	≤ 0.2	≤ 300	-	-





Multifunctional Monomers

Grade	Chemical Description	CAS No.	Features and Applications	Appearance	Color (APHA)	Acid Value (mg KOH / g)	Viscosity (cps @25°C)	Moisture (%)	Inhibitor (MEHQ, ppm)	Surface Tension (dyne / cm)	Refractive Index
Doublemer Di-TMPTA	Ditrimethylolpropane tetraacrylate	94108 - 97 - 1	• High reactivity and good solvency • Low irritation • Ink, coating, adhesive and electronic applications	Clear liquid	≤ 150	≤ 1.0	400 - 800	≤ 0.2	200 - 600	36.0	1.4760
Doublemer DPHA	Dipentaerythritol hexaacrylate	29570 - 58 - 9 60506 - 81 - 2	• High reactivity and crosslink density • Good hardness • Low volatility and irritation • Ink, coating, adhesive and electronic applications	Clear liquid	≤ 100	≤ 1.0	3,500 - 7,000	≤ 0.2	400 - 600	44.0	1.4893
Doublemer GPTA	Glyceryl propoxy triacrylate	52408 - 84 - 1	• Good hardness, chemical and abrasion resistance • Low irritation and shrinkage • Ink, coating and electronic applications	Clear liquid	≤ 100	≤ 1.0	70 - 100	≤ 0.2	200 - 500	34.5	1.4630
Doublemer PETA	Pentaerythritol tetraacrylate	1245638 - 61 - 2	• Good hardness and solvent resistance • Ink, coating, adhesive and electronic applications	Clear liquid	≤ 100	≤ 1.0	500 - 800	≤ 0.1	500	43.5	1.4857
Doublemer PET(5EO)4A	Ethoxylated (5 mol) Pentaerythritol tetraacrylate	51728 - 26 - 8	• High reactivity and low irritation • Good flexibility • Ink, coating for metal, optical, PVC flooring, wood and paper, and electronic applications	Clear liquid	≤ 100	≤ 1.0	120 - 170	≤ 0.1	200 - 600	43.4	1.4765
Doublemer THEICTA	Tris(2 - HydroxyEthyl) isocyanurate triacrylate	40220 - 08 - 4	• Good hardness, abrasion and chemical resistance • Low shrinkage • Ink, coating and photoresist application	Clear liquid or crystalline solid	< 1 (Gardner)	≤ 0.5	-	≤ 0.2	300 - 600	-	-
Doublemer TMP(3EO)TA	Ethoxylated (3 mol) Trimethylolpropane triacrylate	28961 - 43 - 5	• Good solvency and flexibility • Low odor and irritation • Ink, coating for paper and wood applications	Clear liquid	≤ 100	≤ 0.5	40 - 80	≤ 0.15	300 - 600	36.9	1.4691
Doublemer TMP(15EO)TA	Ethoxylated (15 mol) Trimethylolpropane Triacrylate	28961 - 43 - 5	• Good solvency and flexibility • Low odor and irritation • Ink, coating for paper and wood applications	Clear liquid	≤ 100	≤ 1.0	120 - 200	≤ 0.2	≤ 600	41.1	1.4703
Doublemer TMPTA	Trimethylolpropane triacrylate	15625 - 89 - 5	• Good hardness, solvent and abrasion resistance • Ink, coating and adhesive applications	Clear liquid	≤ 60	≤ 1.0	70 - 110	≤ 0.2	100 - 300	35.0	1.4726
Doublemer TMPTMA	Trimethylolpropane trimethacrylate	3290 - 92 - 4	• Good hardness, solvent, heat and abrasion resistance • Ink, coating and adhesive applications	Clear liquid	≤ 100	≤ 0.2	35 - 50	≤ 0.1	150 - 400	32.2	1.4701

Epoxy Acrylate Oligomers

Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer 120	2 - Hydroxy - 3 - Phenoxypropyl Acrylate	• Improved flexibility • Good adhesion • Low crosslink density • Low odor and viscosity	• Coatings • Inks • Adhesives • Treated PE / PP	1	Clear liquid	≤ 1.0	≤ 1.0	150 - 200	1,294	73	52A	1.5245
Doublemer 127-TP20	Bisphenol - A Epoxy Diacrylate	• Light color • Very high gloss • Fast curing speed • High surface hardness • Good heat and chemical resistance	• Clear coatings on paper, paper boards, wood, chipboards and rigid plastics • Overprint varnishes • Lithographic and screen inks • Wood sealers • Paper upgrading • Laminating adhesives • Fast curing coatings	2	Clear pale yellow viscous liquid	≤ 1.0	≤ 1.0	25,000 - 35,000	-	-	89D	1.5324
Doublemer 127-100	100% Bisphenol - A Epoxy Diacrylate	• Light color • Fast curing speed • Excellent chemical and heat resistance • High gloss • High surface hardness	• Clear coatings on paper, paper boards, wood, chipboards and rigid plastics • Overprint varnishes • Lithographic and screen inks • Wood sealers • Paper upgrading • Laminating adhesives • Fast curing coatings	2	Clear liquid	≤ 1.0	≤ 1.0	4,200 - 6,200 (60°C)	2,702	7	86D	1.5553
Doublemer 129	100% Bisphenol - A Epoxy Dimethacrylate	• Light color • Fast curing speed • Excellent chemical and heat resistance • High surface hardness	• Clear coatings on paper, paper boards, wood, chipboards and rigid plastics • Overprint varnishes • Inks	2	Clear liquid	≤ 3.0	≤ 3.0	5,000 - 10,000 (60°C)	-	-	82D	1.5508
Doublemer 176-TF	Modified Bisphenol - A Epoxy Diacrylate (Toluene Free)	• Excellent adhesion • Good pigment wetting • Good scratch resistance • Fast curing speed • Improved water / oil balance for offset inks	• Adhesives for plastics • Wood coatings • Inks • Good adhesion to PET, PP, PE and OPP	2	Liquid, transparent tawny like color	-	≤ 5.0	140,000 - 180,000	-	-	84D	1.5258
Doublemer 176TF-5	Modified Bisphenol - A Epoxy Diacrylate (Toluene Free)	• Good adhesion • Good pigment wetting • Fast curing speed • Improved flexibility	• Inks • Adhesives for plastics • Wood coatings • Coatings on PE, PP and PET	2	Transparent tawny liquid	≤ 6.0	≤ 5.0	45,000 - 65,000	3,112	10	89D	1.5173

Epoxy Acrylate Oligomers

Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer 186	Epoxidised Soya Bean Oil Acrylate	• Good surface appearance • Good pigment wetting • Improved substrate wetting • Enhanced adhesion to paper and metals	• Overprint varnishes • Coatings on paper and plastics • Wood topcoats with smooth surface • Ink binders with good wetting property • Adhesives	3	Clear, pale yellowish pale liquid	≤ 10	≤ 15	13,000 - 35,000	420	18	35D	1.4796
Doublemer 188	Special Modified Epoxy Acrylate	• Outstanding hardness and scratch resistance • Excellent solvent resistance • High gloss	• Lithographic inks • Improved curing speed, solvent resistance and gloss • Scratch resistant coatings on plastics • Photoimageable solder masks	5	Clear liquid	2	1	80,000 - 110,000	-	-	92D	1.5158
Doublemer 193A-TF	Modified Epoxy Diacrylate (Toluene Free)	• Good adhesion • Good pigment wetting • Good toughness	• UV offset inks • Wood coatings	2	Yellow to orange liquid	-	30 - 50	580,000 - 660,000	-	-	-	-
Doublemer 1283C	Modified Bisphenol - A Epoxy Acrylate	• Light color • Improved flexibility • Fast curing speed • Good pigment wetting • Low viscosity	• Screen inks • Varnish coatings • Coatings on paper, plastics and wood	2	Clear yellowish liquid	≤ 3.0	< 10	1,000 - 3,000	1,415	15	49D	1.5124
Doublemer 1636	Novolac Epoxy Acrylate Diluted with 50% TMPTA	• Fast curing speed • Excellent chemical and heat resistance • Good hardness	• Clear coatings on metals • Wood topcoats • Solder mask inks • Heat and chemical resistant coatings • Adhesive binders for metals	3	Clear yellowish liquid	≤ 3.0	≤ 5.0	30,000 - 50,000	1,280	5	84D	1.5248
Doublemer 1701	Modified Bisphenol - A Epoxy Diacrylate	• Excellent chemical resistance • Good abrasion resistance • Very high gloss • Higher flexibility than standard bisphenol - A epoxy acrylates	• Adhesives for paper and film lamination • Coatings on paper, wood and plastics • Lithographic and screen ink vehicles • PET coatings	2	Clear liquid	≤ 4.0	≤ 5.0	2,800 - 5,700 (65°C)	3,599	20	70D	1.5049
Doublemer 1703	Bisphenol - A Epoxy Diacrylate (Modified by Amine)	• Excellent chemical resistance • Good UV / EB cure reactivity • Good flexibility and adhesion • Good surface hardness • Good solvent resistance • High gloss	• Vehicles for metal decorating inks and clear coatings • Wood topcoats • Coatings on paper and plastics • Lithographic and screen ink vehicles • Treated PP / PE	2	Clear yellowish liquid	≤ 4.0	-	÷ 300,000	5,800	45	70A	1.5208
Doublemer 1730	Epoxy Acrylate	• Light color • Fast curing speed • Excellent chemical and heat resistance • Good adhesion • Low viscosity • Homogeneous dispersion	• Clear coatings on paper, paper boards, wood, chipboards and rigid plastics • Overprint varnishes • Offset lithographic and screen inks • Wood sealers • Paper upgrading • Lamination adhesives • Fast curing coatings	2	Clear liquid	≤ 1.0	-	2,000 - 4,000	-	-	-	-

Polyester Acrylate Oligomers

Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
New Doublemer 236-TF	Polyester acrylate with 40% TMPTA, toluene free	• Fast curing • Good pigment wetting • Good wet lithographic behavior • Good adhesion to metals, plastics and paper	• Wet lithographic inks for paper, plastics and metals. • Adhesion promoter for coatings on metals, plastics and paper • Lithographic overprint varnishes • Post-formable inks	-	Clear liquid	≤5	≤25	100,000 - 150,000	-	88	-	1.5137
Doublemer 245	Fatty Acid Modified Polyester Hexa - Acrylate	• Fast curing speed • Good pigment wetting • Good lithographic performance • Good abrasion resistance • Good solvent resistance	• Fast curing lithographic inks and clear varnishes • Additives for improving litho performance and rheological properties	6	Clear liquid	-	≤ 20	5,000 - 10,000	-	-	81D	1.4861
Doublemer 257	Polyester Tetra - Acrylate	• Outstanding lithgraphic performance • Good pigment wetting • Low skin irritation • Low odor • Toughness	• Coatings on paper, metals and plastics • Wet Lithographic inks and varnishes • Pigment grinding vehicles	4	Dark liquid	Dark	≤ 20	100,000 - 220,000	4,250	25	67D	1.5014
New Doublemer 261	Modified polyester acrylate	• Good adhesion • Good flexibility • Fast curing	• Melamine-base UV adhesive • Screen printing UV ink • UV film material • Metal UV coating	2	Slightly cloudy liquid	≤ 80 (APHA)	≤ 5	12,000 - 28,000	-	-	-	-

Polyester Acrylate Oligomers

Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer 272	Carboxylated Polyester Acrylate	• Light color • Acid functionality • Low viscosity • Good elongation at high temperature after UV curing	• Etching resist inks and varnishes • Adhesion promotrers for metals and glass	1	Clear liquid	≤ 2.0	≐ 200	10,000 - 30,000	-	-	94A	1.4885
Doublemer 275	Carboxylated Polyester Acrylate	• Non - yellowing property • Low odor • Acid functionality • Low volume shrinkage	• Plastic substrates • PET substrates • Adhesion promoters for metals and glass	1	Clear liquid	≤ 2.0	≤ 150	1,200 - 3,000	-	-	19A	1.4805
Doublemer 278-X25	Chlorinated Polyester Acrylate	• Excellent adhesion • Fast curing speed	• Good adhesion to PP, PE, PET, OPP, metals and glass • Improved curing speed • Good pigment wetting	1	Clear liquid	-	≐ 50	≐ 39,000	-	-	65D	-
Doublemer 281	Amine Modified Multifunctional Polyester Acrylate	• Light color • High gloss • Fast curing speed • Low odor • Low viscosity	• Coatings on paper, plastics and wood • Flexographic and screen inks • Improved curing speed	2.5	Clear liquid	≤ 2.0	-	75 - 90	-	-	52D	1.4617
Doublemer 285	Amine Modified Polyester Tetra - Acrylate	• Fast curing speed • High gloss • Low viscosity	• Coatings on wood, paper and plastics • Flexo Inks	4	Clear liquid	≤ 2.0	-	500 - 1,500	-	-	84D	1.4804
Doublemer 287	Fatty Acid Modified Polyester Hexa - Acrylate	• Fast curing speed • Good pigment wetting • Good lithographic performance • Good abrasion resistance • Good solvent resistance	• Fast curable lithographic inks and clear varnishes • Additives for improving litho performance	6	Clear liquid	-	≤ 20	20,000 - 50,000	4,500	5	70D	1.5158
Doublemer 2015	Hyperbranched Polyester Acrylate	• Fast curing speed • High gloss • Good adhesion • Good flexibility and high hardness • Low viscosity • Low volume shrinkage	• Inks • Varnish coatings • Coatings on paper, plastics and wood • Improved hardness	15	Clear liquid	≤ 200 (APHA)	≤ 1.0	100 - 500	-	-	85D	1.4780
Doublemer 2319	Modified Polyester Acrylate	• Fast curing speed • Good toughness and scratch resistance • Good chemical resistance	• Coatings on wood and plastics • Overprint varnishes for paper	-	Yellowish liquid	≤ 2.0	-	20,000 - 40,000	-	-	55D	1.5048

Full Acrylate Oligomers

Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer 321HT	Full Acrylic Oligomer	• Excellent curing speed • Good flexibilty even after UV curing • Good adhesion to difficult substrates • Good balance between adhesion and surface hardness	• In - mold decoration:coatings or inks • Metals and plastics • Suitable for thermoforming after UV curing	-	Hazy liquid	-	≤ 2.0	60,000 - 120,000	-	-	83D	1.5032
Doublemer 345	Full Acrylic Oligomer Diluted with HDDA and TPGDA	• Fast curing speed • Good adhesion to difficult substrates • Good flexibility	• Silk screen inks • Plastic coatings • Inks and adhesives on difficult substrates like unsaturated polyester, polypropylene and polystyrene	-	Clear liquid	≤ 35	≤ 1.0	13,000 - 25,000	1,850	50	72A	1.4825
Doublemer 347-1	Full Acrylic Oligomer Diluted with 50% BAC	• Good flexibilty • Good adhesion to difficult substrates • Good curing speed • Low volume shrinkage rate of thin films	• Silk screen inks • Plastic coatings • Inorganic substrates • PBT / BMC primers	-	Clear liquid	< 2	-	200 - 600	-	-	-	1.4499
Doublemer 353H	Full Acrylic Oligomer	• High gloss • Good adhesion • Good flexibility • Non - yellowing property	• Adhesion promoters for coating on metals, plastics and glass • Excellent adhesives on glass, metals and plastics like PC / PMMA	-	Clear viscous liquid	≤ 1.0	-	90,000 - 150,000	1,415	15.10	89A	1.4576
Doublemer 353L	Full Acrylic Oligomer	• High gloss • Good adhesion • Good flexibility • Non - yellowing property	• Adhesion promoters for coating on metals, plastics and glass • Excellent adhesives on glass, metals and plastics like PC / PMMA	-	Clear viscous liquid	≤ 1.0	≤ 5.0	9,000 - 12,000	1,365	209.00	43D	1.4570
Doublemer 3710	Full Acrylic Oligomer Diluted with HDDA	• Excellent curing speed • Good adhesion to difficult substrates • Good balance between adhesion and surface hardness	• Silk screen inks • Coatings on plastics like PC, polyester, treated PE, PP and PVC • Adhesives on difficult substrates like unsaturated polyester, polypropylene and polystyrene	-	Clear viscous liquid	≤ 1.0	≤ 2.0	20,000 - 32,000	-	-	77D	1.4700

[illegible][illegible]



Urethane Acrylate Oligomers

	Grade	Chemical Description	Characteristics	Applications	Physical Properties								
					Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
New	Doublemer 686	Polyurethane acrylate	• Fast curing • Good fingerprint resistance • Good RCA abrasion resistance	• Main resin of excimer UV curing spray coating	4	Clear transparent or slightly turbid liquid	-	-	4,000 - 6,600	-	-	-	-
	Doublemer 5220	Aliphatic Urethane Dimethacrylate Diluted with 25% IBOA	• Excellent flexibility • Excellent toughness • High elongation (>500%)	• Soft feel coatings • Coatings on wood and plastics • Clear or pigment coatings for IMD or IMF • Adhesives • Peelable films	2	Clear liquid	≤ 2.0	-	50,000 - 100,000	1,272	570	81A	1.4755
	Doublemer 5222	Aliphatic Urethane Dimethacrylate Diluted with 25% IBOA	• Excellent flexibility and toughness • High elongation (>1200%) • Good adhesion to plastics, glass and aluminum	• Soft feel coatings • Coatings on plastics, glass and metals • Adhesives	2	Clear liquid	≤ 1.0	-	50,000 - 100,000	441	1,412	58A	1.4727
New	Doublemer 5222H	Aliphatic Urethane Dimethacrylate Diluted with 25% IBOA	• Excellent flexibility • Good toughness • High elongation	• Coatings for wood and plastic • Metal coating • Pigment coatings • Adhesives	2	Clear liquid	≤ 1	-	100,000 - 150,000	-	-	-	-
	Doublemer 5400	Aliphatic Urethane Acrylate	• Good adhesion • Non - yellowing property	• LOCA (Liquid Optically Clear Adhesives) • UV PSA	1	Clear liquid	≤ 2.0	-	30,000 - 50,000	-	313	-	-
	Doublemer 5404	Aliphatic Urethane Acrylate	• Good adhesion • Non - yellowing property	• LOCA (Liquid Optically Clear Adhesives) • UV PSA	2	Clear liquid to viscous paste	≤ 1.0	-	28,000 - 37,000	100	309	64A	1.4727
	Doublemer 5433H	Aliphatic Urethane Diacrylate	• Excellent flexibility and toughness • Good adhesion • Good chemical resistance	• Coatings on plastics and metals • Laminating adhesives and UV PSA • Thermoformable coatings and adhesives • Soft feel coatings • UV fingernail polish	2	Clear liquid	-	-	45,000 - 75,000 (60°C)	441	640	60A	1.4725
New	Doublemer 5405	Aliphatic Urethane Acrylate	• Low glass transition temperature • Non-yellowing • Good adhesion on glass	• Liquid optically clear adhesives • UV PSA	1	Clear liquid	≤ 1	-	Approx. 70,000 - 110,000	-	-	-	-
	Doublemer 5500	Aliphatic Urethane Dimethacrylate Oligomer Diluted with 30% IBOA	• Good adhesion • Good stickiness	• Pressure sensitive adhesives (PSA)	2	Clear and clean liquid	≤ 1.0	-	35,000 - 65,000	-	959	-	-
	Doublemer 5700	Aliphatic Urethane Diacrylate Diluted with 40% IBOA	• Light color • Excellent flexibility • Excellent adhesion	• Coating on plastics, metals and glass • Laminating adhesives • Flexibilizers • Soft feel coatings	2	Clear semi - liquid	≤ 1.0	-	18,000 - 22,000 (60°C)	540	874	69A	1.4713
	Doublemer 5900	Aliphatic Urethane Diacrylate Diluted with 25% IBOA	• Excellent flexibility • Excellent toughness • High elongation (>300%)	• Soft feel coatings • Coatings on paper, wood and plastics • Anaerobic adhesives or UV adhesives	2	Clear liquid	≤ 2.0	-	÷ 100,000	800	>300	64A	1.4842

Formulated Acrylate Oligomers

	Grade	Chemical Description	Characteristics	Applications	Physical Properties								
					Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
	Doublemer 6MX75	Full Acrylic Oligomer	• Excellent adhesion • Reduced shrinkage of coatings • Improved orientation of aluminum powder and matting agents	• Adhesion promoters • UV curable adhesives	1	Clear and clean liquid	-	-	2,500 - 4,500	-	-	72A	1.4520
	Doublemer 6MX75-E	Full Acrylic Oligomer	• Excellent adhesion • Reduced shrinkage of coatings • Improved orientation of aluminum powder and matting agents	• Adhesion promoters • UV curable adhesives	1	Clear and clean liquid	-	-	3,200 - 5,500	-	-	58A	1.4579
New	Doublemer 607-1	Formulated Acrylate	• Excellent flame-retarding effect • Fast curing • Low shrinkage	• Flame-retarding resin • Suitable for G-PET and PET • The recommended dose is above 30% in the formulation to achieve better flame-retarding effect	2	Clear liquid	-	-	7,000 - 15,000	-	-	-	-
	Doublemer 611	Polyester Acrylate	• Excellent resilience • Excellent soft touch feel	• Soft feel coatings for paper packaging and plastic coatings	2	Hazy liquid	-	-	200 - 600	-	-	-	1.4800
New	Doublemer 621	Formulated Acrylate	• Good glass adhesion • Pencil hardness above 3H • Surface hardness can increase in a day after curing	• Resin for glass adhesion	3	Clear liquid	-	-	3,000 - 7,000	-	-	3H (pencil hardness)	-

Formulated Acrylate Oligomers

New

Total Formulation

CC(C)Cc1ccccc1

Total Formulation

Total Formulation												
Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer CM104-1	Formulated Acrylate	• Good metal adhesion • Easy processing • High gloss • Good yellowing resistance • Use environmentally friendly solvent	• Metal coating	6	Yellow hazy liquid	-	-	1,000-2,500	-	-	95A	-
Doublemer LG11	Formulated Acrylate	• Non-yellowing property • Excellent toughness • Good adhesion • Excellent flexibility	• Topcoat for leather	2	Clear liquid	-	-	1,500 - 3,000	-	-	-	-
Doublemer LM11	Formulated Acrylate	• Non-yellowing property • Good adhesion • Good matting effect • Excellent flexibility	• Topcoat for leather	2	Clear liquid	-	-	3,000 - 5,000	-	-	-	-
Doublemer UCP-0011-7	Formulated Acrylate	• Soft Touch Matt Finish • Good scratch resistance • Easy to spray • Good adhesion to plastic(PC/ABS)	• Soft touch coating(packaging boxes, receptacles, electronic devices) • Automotive • Consumer electronics • Cosmetic packaging • Small domestic appliances	-	Hazy liquid	-	-	100-300	-	-	-	-
Doublemer UCX-P1126	Self - matting Oligomer	• Low viscosity (mostly for screen printing) • Very good adhesion (mostly to PVC, ABS, PC, PMMA and paper) • Good matting ability (20°gloss level is 0.8)	• Paper • Matting effect for plastics and wood	-	Milky yellowish liquid	-	-	400 - 900	-	-	-	-
Doublemer 608H	Acrylic Oligomer	• Good adhesion to carbon fibers and metals • Non - yellowing property	• Primers for carbon fibers and metals	-	Light yellow liquid	1	-	3,000 - 7,000	-	-	-	-

High Refractive Index Acrylate Oligomers

Grade	Chemical Description	Characteristics	Applications	Physical Properties								
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer R1601-L4	High Refractive Index Aromatic Diacrylate	• Low odor • Low skin irritation • Low volatility • High refractive index	• Diffuser plates • BEF application • 3D display • Optical films	2	Clear liquid	< 100 (APHA)	< 1	27,000 - 32,000	1138	8	86D	1.6017

Waterborne Oligomers and Materials

Grade	Chemical Description	Characteristics	Applications	Physical Properties										
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index	pH	Solid content (%)
Doublemer PO204	Sulfonate diol	• Good waterborne polyurethane dispersibility • Can replace DMBA (Dimethylolbutanoic acid) • Improve hydrolysis resistance • Improve pigment dispersion • Improve color development of waterborne polyurethane	• Woodware • Shoe materials • Artificial leather adhesives	-	Yellow slightly hazy liquid	-	-	-	-	-	-	-	-	-
Doublemer WP45	Waterborne Polyurethane Acrylate	• Thermal type	• Primer for natural / synthetic leather and wallpaper	-	Slightly transparent white viscous liquid	-	-	5,000 - 8,000	-	-	-	-	-	< 45
Doublemer WP45DL-2	Waterborne Polyurethane Acrylate	• Thermal type	• Primer for natural leather	-	Milky liquid	-	-	< 50	-	-	-	-	-	< 25
Doublemer W3055-2	Waterborne Polyester Acrylate	• Good adhesion and flexibility	• Primer for wood	-	Clear to hazy liquid	-	-	300 - 1,000	-	-	-	-	-	33 - 40

Waterborne Oligomers and Materials

Grade	Chemical Description	Characteristics	Applications	Physical Properties										
				Functionality	Appearance	Color (Gardner)	Acid Value (mg KOH/g)	Viscosity (cps at 25°C)	Tensile Strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index	pH	Solid content (%)
Doubletex 591	Waterborne Polyurethane	• Excellent abrasion resistance • Excellent adhesion • Fast drying speed • Lower viscosity and better operability	• Used for water-based pigment digital printing ink • Coating for fabric • Coating for plastic	0 (Thermoset)	Slightly bluish to milky white liquid	-	-	<200	-	-	-	-	7-9.5	38-42

Cationic Monomers and Oligomers

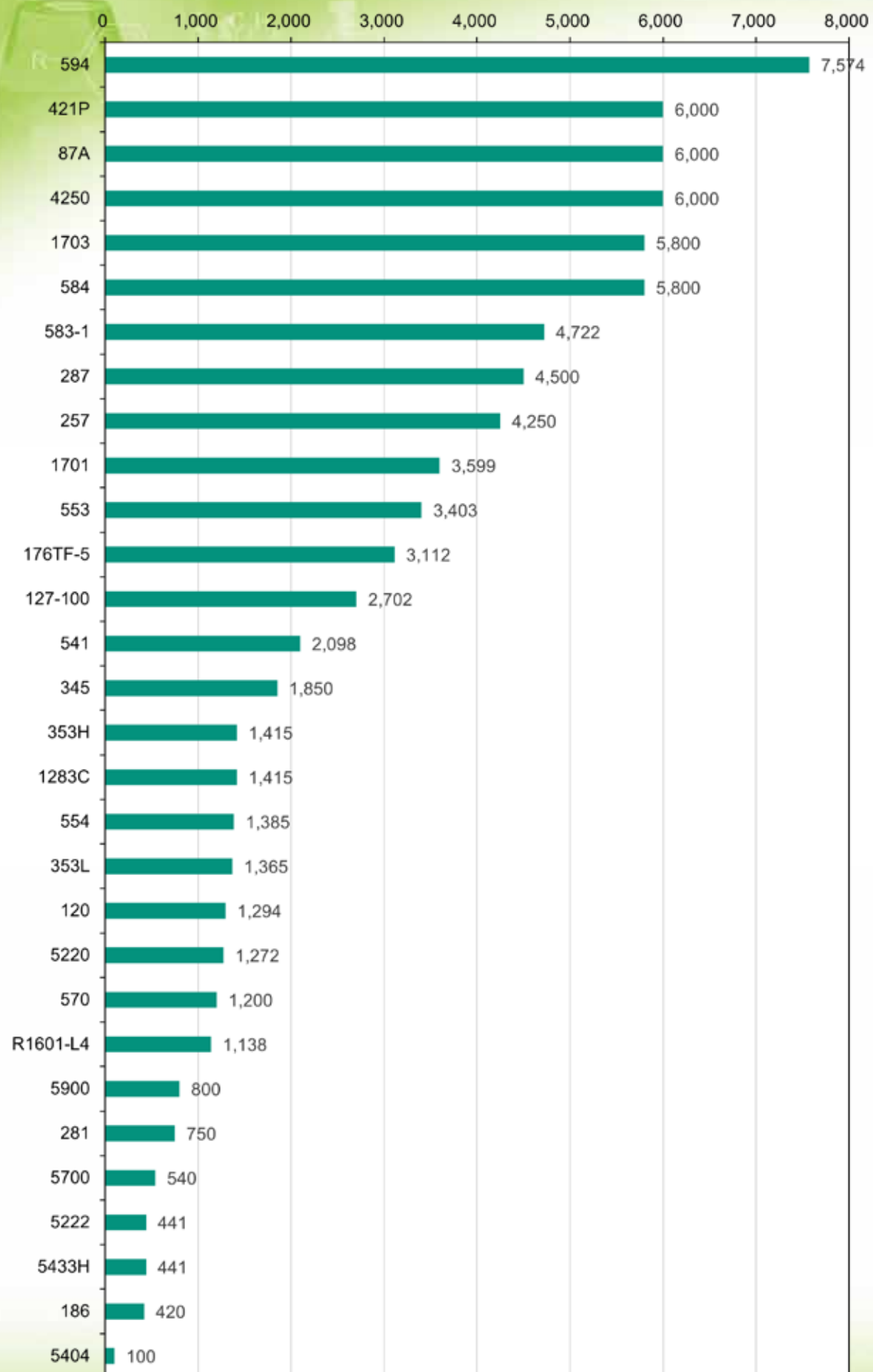
Grade	Chemical Description	Characteristics	Applications	Physical Properties							
				Appearance	Color (APHA)	Epoxy equivalent	Viscosity (cps at 25°C)	Tensile strength (psi)	Elongation (%)	Hardness (Shore)	Refractive Index
Doublemer 421P	Cycloaliphatic Epoxide Monomer	• No oxygen inhibition for UV curing • High gloss • Low volume shrinkage • Yellowing resistance • Excellent electrical properties • Excellent adhesion to metals and plastics	• Overprint varnishes • Metal and plastic coatings	Clear liquid	80 max.	128 - 140	200 - 350	6,000	7	87D	1.4963
Doublemer 4186	Epoxide Oligomer	• Excellent wetting ability to metals • Excellent adhesion to metals and non - porous substrates • Good balance between hardness and flexibility • Low volume shrinkage rate than acrylate	• Topcoats	Light yellow liquid	< 1 (gardner)	160 - 180	200 - 400	-	-	-	-
Doublemer 4250	Cycloaliphatic Epoxide Oligomer	• Good toughness • Excellent curing speed	• Gloss promoters • Yellowing resistance	Yellowish viscous liquid	≤ 1.0(gardner)	-	4,000 - 8,000	6,000	7	88D	1.5047
Doublemer 4500D40	Aliphatic Acrylate with Glycidyl Epoxide Diluted in 40% DAC	• Light color and low odor • No oxygen inhibition for UV curing • Low skin and eye irritation • Low volume shrinkage • Yellowing resistance	• LED white inks • Metal coatings • PET films • Keypad coatings • Glass coatings	Clear liquid	≤ 1.0	800 - 900	30,000 - 60,000	-	-	-	1.4861

Additives

Grade	Chemical Description	Characteristics	Applications	Physical Properties				
				Appearance	Color (Gardner)	Acid Value (mg KOH / g)	Viscosity (cps at 25°C)	Refractive Index
Chinox TP-10H	Liquid Antioxidant with UV Stabilizer Performance	• Improved heat stability	• UV curable systems • PU systems	Colorless to slightly yellowish liquid	-	-	-	-
Chisorb UV-33	Highly Effective Liquid UV Absorber which Does Not Affect Curing Speed	• Improved weatherability	• UV curable systems • PU systems	White powder	-	-	-	-
Chisorb 292	Light Stabilizer	• Improved weatherability by applying with chisorb UV - 33 to create a synergist effect	• Automotive coatings • Coil coatings • Wood strains or DIY paints • UV / EB coatings	Light yellowish liquid	-	-	-	-
Chisorb 5530	Ultraviolet Light Absorber	• Easy application compared with benzotriazoles UV absorbers	• Automotive coatings • Industrial coatings • Trade sales coatings • Waterborne application • Outdoor application	Yellow to light amber liquid	-	-	-	-
New DBC Delevel-333	Polyether modified organic polysiloxane	• Make coatings smoother and steadier • Improving glossiness and preventing shrinkage cavity • Applies to waterborne, solvent and solventless system	• Leveling agent • Surfactant • Defoamer	Colorless to light amber transparent oil liquid	-	-	300 - 1,000	1.442 - 1.446
Doublemer 989	Anti - misting Agent (Thickener)	• Excellent wetting ability • Excellent viscosity build - up • Good oil / water balance for offset inks • Low volume shrinkage	• Offset inks • Most UV formulations • Silk screen inks	White solid powder	3	-	-	-
Doublemer 9166	Adhesion Promoter, Methacrylate	• Light color • Low viscosity • Acid functionality • Good stability and compatibility	• Solder resist application • Etching resist application • Metal and plastic coatings	Clear liquid	≤ 5.0	235 - 305	1,800 - 3,600	1.4660

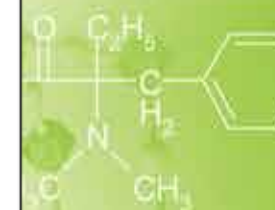
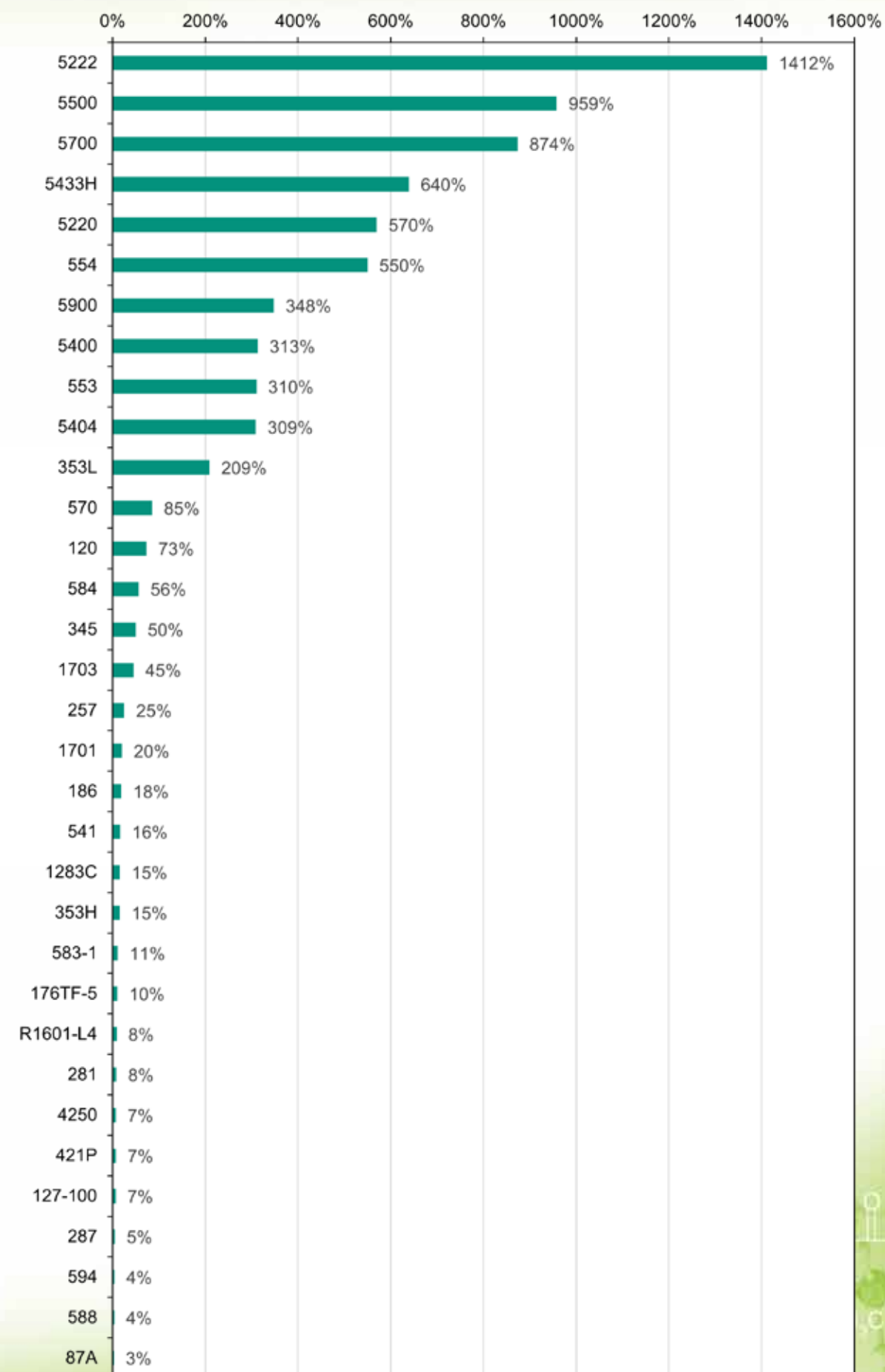
PARAMETER COMPARISON (OLIGOMERS)

Tensile strength (psi)



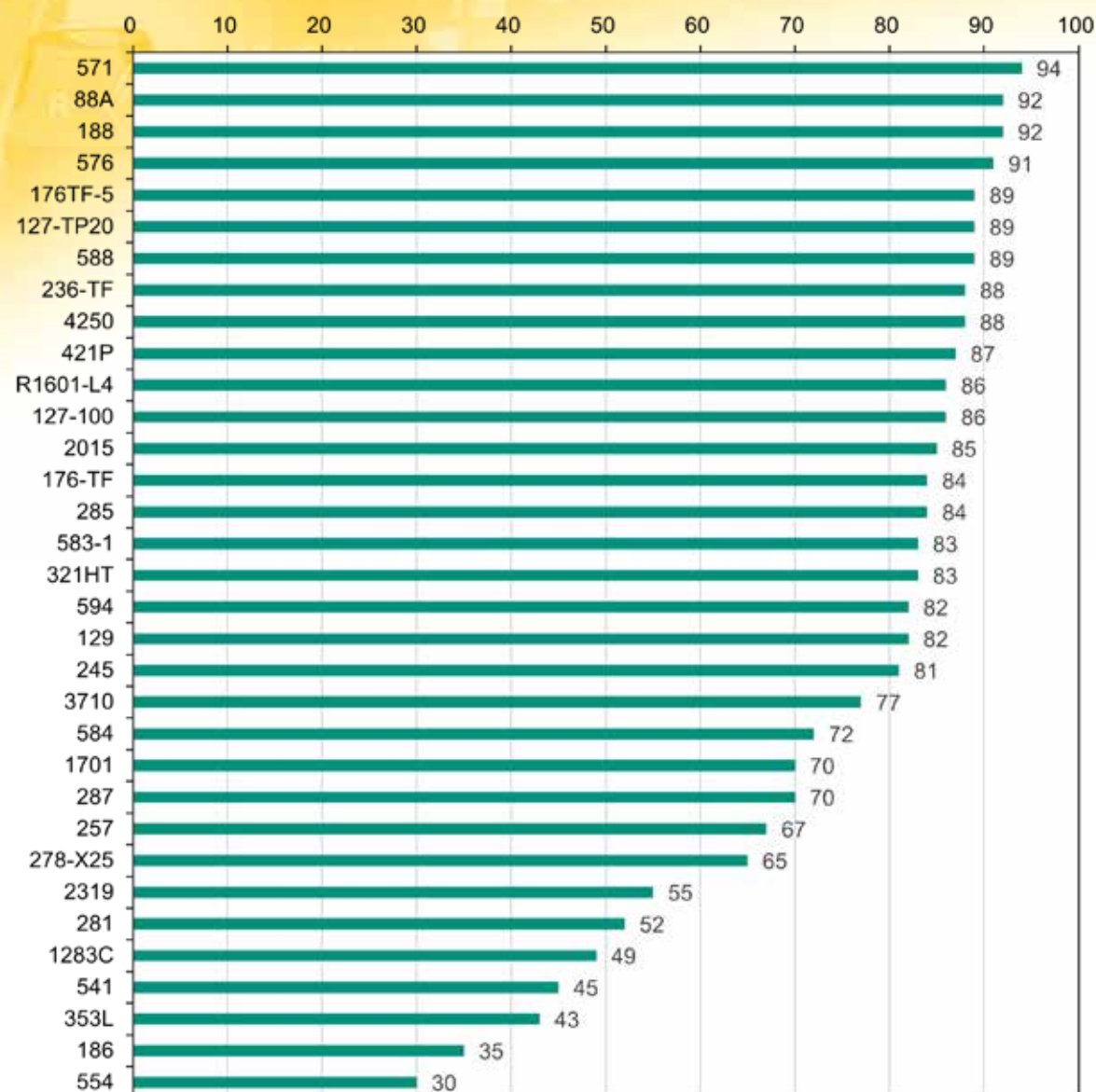
PARAMETER COMPARISON (OLIGOMERS)

Elongation (%)

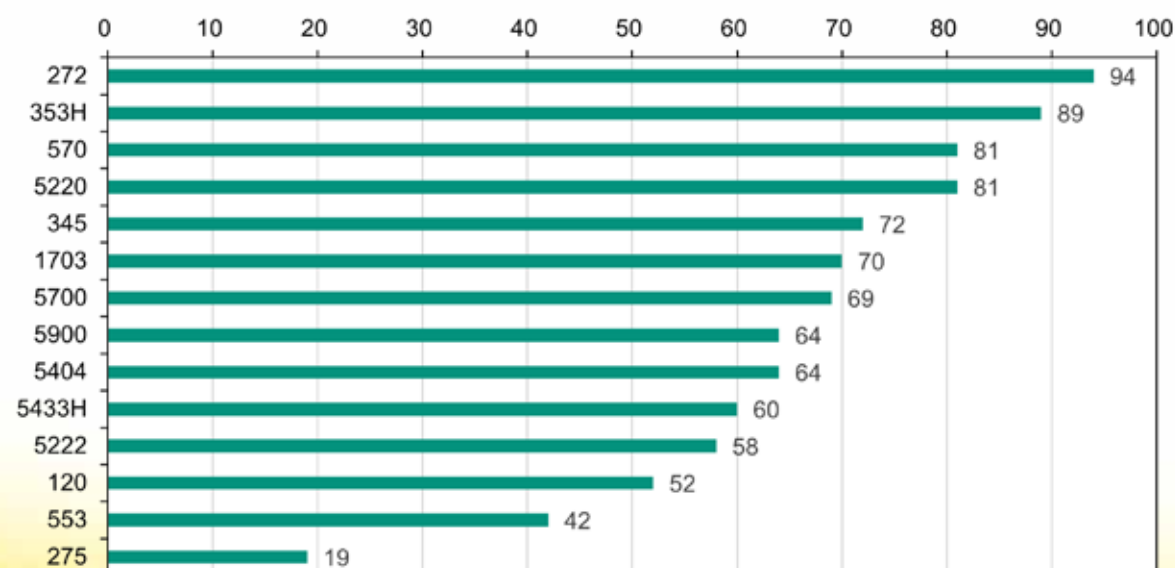


PARAMETER COMPARISON (OLIGOMERS)

Hardness (Shore D)

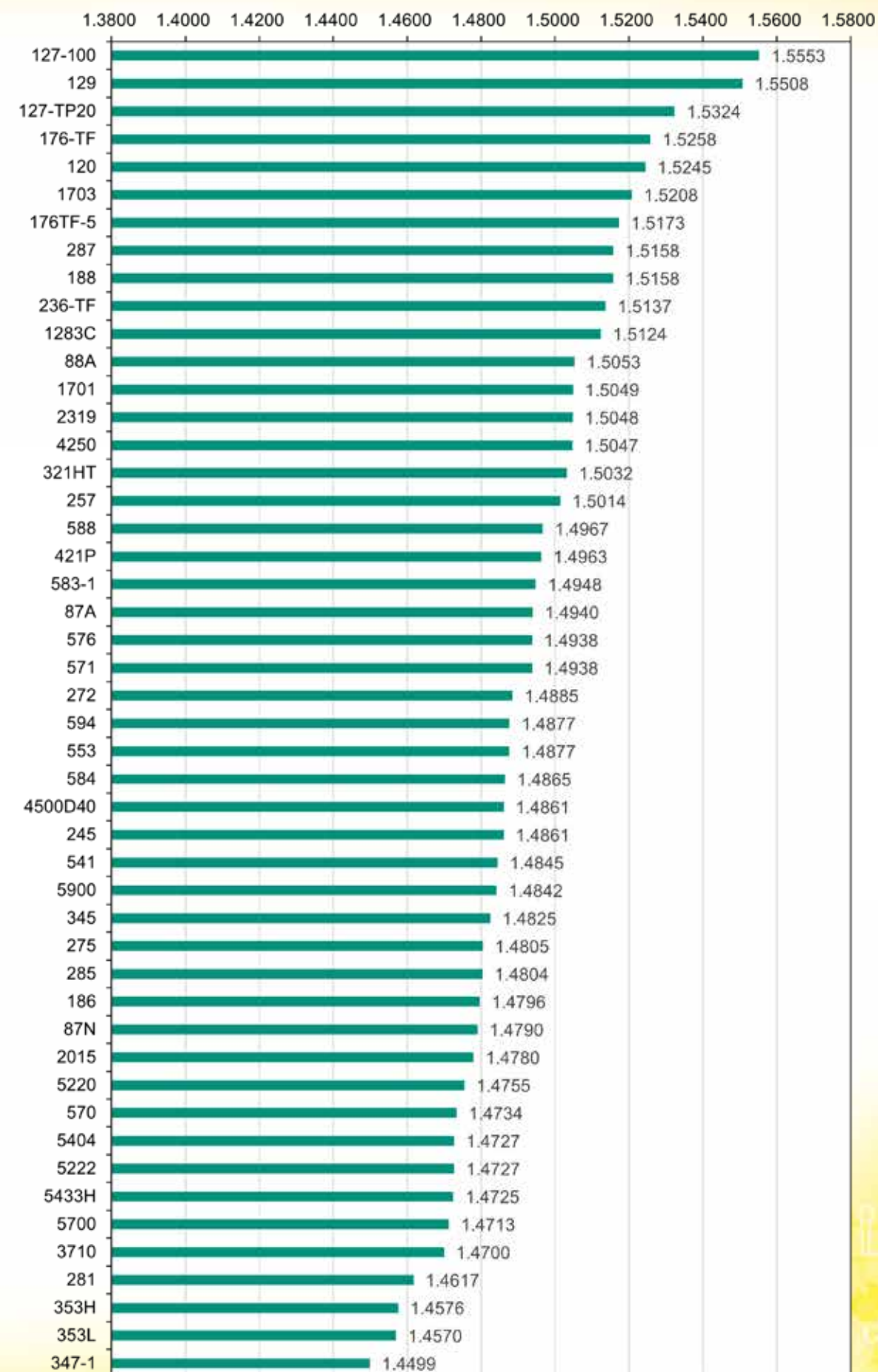


Hardness (Shore A)



PARAMETER COMPARISON (OLIGOMERS & MONOMERS)

Refractive Index





Application	Oligomer (Doublemer series)	Monomer (Doublemer series)	Photoinitiator (Doublecure series)
Overprint varnish	127-100, 127-TP20, 1701, 1730, 541, 1283C, 186, 281, 285	DPGDA, HDDA, TMPTA, TPGDA, TMP3EOTA	173, 184, BP, OMB, 115, 225
Wood coating (primer)	127-TP20, 1283C, 1701, 1730, 2319, W3055-2	DPGDA, HDDA, TMPTA, TPGDA, TMP3EOTA	173, 184, BP, OMB, 115, 225
Wood topcoat	127-TP20, 188, 1730, 87A, 87N, 88A, 588, 571, CW101-2, CW102-2	DPGDA, DPHA, HDDA, TMPTA, TPGDA, TMP3EOTA	173, 184, BP, OMB, 115, 225
ABS/PC coating	594, 571, 576, 588 87A, 87N, 3710, 554, 623, 680B, 686, 689, 6231, 6235	DPHA, HDDA, TMP3EOTA	173, 184, 200, TPO
PET coating	272, 278X25, 321HT, 623, 6231, 6235, 6MX75	013, 2-HEMA, HDDA, IBOA, IBOMA, PHEA	173, 184, 200, TPO
PMMA coating	353H, 588, 623, 6231, 6235, 6MX75	DPHA, HDDA, IBOA, PHEA	173, 184, 200
PVC coating	188, 278X25, 3710, 554, 5220, 584, 588, 594, 623, 6231, 6235, CC100-4, CC100-1	HDDA, IBOA, PETA, TMPTA, PHEA, PEG200DMA	173, 184, 200
Metal coating	261, 272, 347-1, 353H, 623, 6231, 6235, 9166, CM104-1	HDDA, IBOA, TPGDA	173, 184, 200
Glass coating	623, 4250, 4315CE	IBOA, IBOMA	200, 1176
Carbon fiber coating	608H	013, HDDA, TPGDA	173, 184, 200
Vaccum metalization basecoat	188, 193A-TF, 272, 9166	HDDA, TMPTA, TPGDA	184, TPO
Vaccum metalization topcoat	671, 87A, 87N	DPGDA, DPHA, HDDA, TMPTA	184, TPO
Matt coating	6MX75, UCX-P1126, 6MX75-E, 680B, 686, 689	HDDA , FOEOEA	173, 184, 200, TPO
Soft touch coating	2315HM35, 554, 611, 624, 680B, 686, 689, UCP-0011-7	2-HEMA, BPEA, TPGDA, THFA	173, 184, TPO
3D printing	120, 541, 554, 594, 2015	013, 2-HEMA, DPHA, TEGDMA, TMPTA, TPGDA,	1819, CQ, EPD, TPO
UV nail gel	554, 576, 583-1, 584, 2015, 5222, 5433H	2-HEMA, IBOMA, TMPTA	184, 1819, TPO
Peelable film	554, 624	BPEA	173, 184, 200
Adhesive	261, 5222, 5700, 623, 6MX75	IBOA, LA	184
Offset ink	176TF, 176TF-5, 186, 188, 193A, 257, 284, 88A	DPHA, GPTA, TMPTA, TMP3EOTA, Di-TMPTA, TPGDA	107, 184, 369, 1819, ITX, EPD, DETX
Screen ink	127-TP20, 176, 186, 188, 1730, 245, 257, 261, 88A	DPGA, GPTA, TMPTA, TMP3EOTA, Di-TMPTA, TPGDA	107, 184, 369, 1819, ITX, TPO
UV can coating	421P, 4186	PET5EO3A	1176, 1190, OMB
Metallic paints	660, 6MX75 , 6915, 6M104-1, 539		173, 184 , TPO

Headquarters – Taiwan

Double Bond Chemical Ind. Co., Ltd.

Tel: +886-2-8228-1168

Fax: +886-2-8228-1818

Email: dbcsales@dbc.com.tw

Official website: www.dbc.com.tw

Global Branches

DBC China – Shanghai

Tel : +86-21-5445-0101

Fax : +86-21-5445-0700

DBC South Korea

Tel : +82-2-2282-1460

+82-2-2282-1470

Fax : +82-2-2296-1470

DBC Philippines

Tel : +63917-634-7223

DBC Vietnam

Tel : +84-28-36365071-73

Fax : +84-28-36365074

DBC Indonesia

Tel : +62-21-53163525

Fax : +62-21-53163524

DBC Thailand

Tel : +668 1720 2118

DBC USA

Tel : +1-312-646-2160

+1-714-204-1345

DBC Europe GmbH

Tel : +49-2171-91375-23

+49-1622-57809-3

DBC Switzerland AG

Tel : +49-2171-91375-23

+49-1622-57809-3

dbcsales@dbc.com.tw

www.dbc.com.tw