



Primacure® Product Range

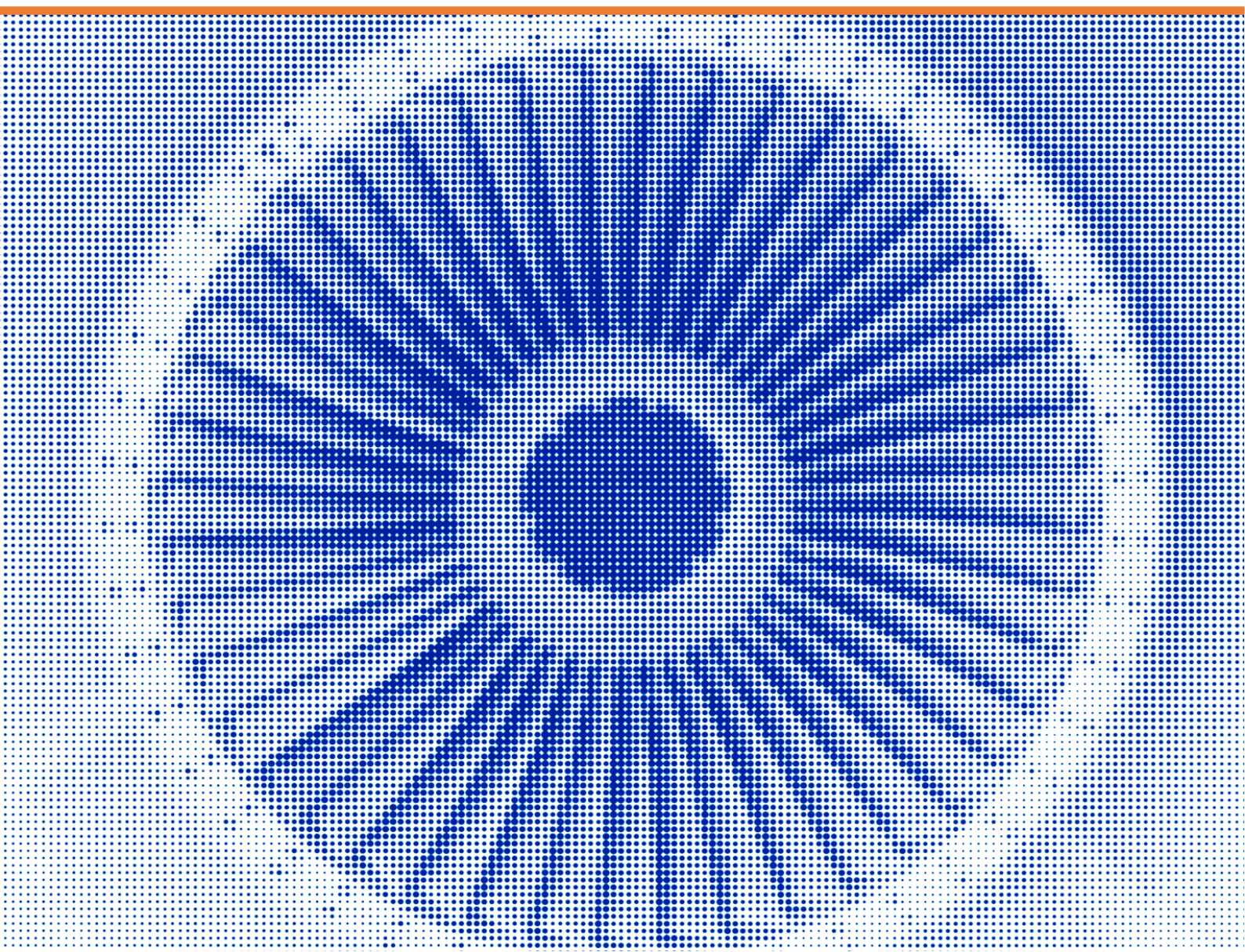
Chain Extenders and Curing Agents



Composite Materials

Primacure® products are high quality components utilized as chain extenders or as curatives. Primacure® products are easy to combine together with polyurea, polyurethane or epoxy resins.

Primacure® products offer beneficial mechanical performance and chemical resistance at a low level of toxicity resulting in less worker risk in industrial settings with routine exposure controls as outlined in our Safety Data Sheet (SDS). As epoxy hardeners they provide improved use temperatures, moisture absorption and impact resistance.



Primacure® - High Performance Materials

Products	Appearance	Melting point	H ⁺ active equivalent	Viscosity @90°C	Pot life @90°C up to 1000 mPa ⁽¹⁾	Geltime @ 150°C ⁽¹⁾
	Visual	[°C]	[g / eg]	[mPa/s]	[min]	[min]
Primacure® DETDA-80	Liquid	-15	45	5	160	13
Primacure® L-15	Liquid	<0	61	20	182	27
Primacure® M-DEA	Crystal. powder	88	78	20	155	43
Primacure® M-CDEA	Solid, powder	88	95	235	985	130
Primacure® M-MIPA	Solidified melt	72	78	40	262	38
Primacure® M-DIPA	Solidified melt	61	94	40	340	60
Primacure® P-25i	Liquid	35	56	30	330	199
M-DEA/DETD (80:20)	Solidified melt	In progress	71	15	155	37
M-MIPA/DETD (50:50)	Solidified melt	In progress	61	20	210	25
M-MIPA/M-DIPA (50:50)	Solidified melt	In progress	86	40	300	50
M-MIPA/M-CDEA (50:50)	Solidified melt	In progress	86	135	620	85

(1): with epoxy resin EEW 180 – 190 g / eq and cure cycle: 2h@130C + 2h@190C
Sources: Arxada internal measurements and third party data for equivalent / similar chemistries on file

Products	Tg ^(1,2)	Water absorp. ⁽¹⁾ @ 70°C 28 days	H ₂ SO ₄ absorption 30% (28 days)	Tensile strength @ RT	Tensile Modulus	Tensile elongation @ RT	Toughness K ₁ C ⁽¹⁾	Compression modulus	Uniaxial Compression strength
	[°C]	[%]	[%]	[%]	[GPa]	[%]	[MN*m ^{-3/2}]	[MPa]	[MPa]
Primacure® DETDA-80	204	2.3	0.84	43	2.5	2.3	0.6	N/A	N/A
Primacure® L-15	181	2	0.93	57	2.4	3.4	0.8	N/A	N/A
Primacure® M-DEA	177	1.5	0.65	45	2.3	3.2	0.7	N/A	N/A
Primacure® M-CDEA	191	1.8	0.92	50	2.4	2.9	0.7	N/A	N/A
Primacure® M-MIPA	198	1.8	0.87	48	2.7	2.2	0.5	N/A	N/A
Primacure® M-DIPA	192	1.8	0.91	52	2.4	3.6	0.6	N/A	N/A
Primacure® P-25i	200	2.1	0.75	67	2.6	4.8	0.6	N/A	N/A
M-DEA/DETD (80:20)	180	N/A	N/A	66	2.3	6.5	0.7	2235	93
M-MIPA/DETD (50:50)	200	N/A	N/A	76	2.6	6.0	0.6	2520	112
M-MIPA/M-DIPA (50:50)	195	N/A	N/A	73	2.4	6.0	0.6	2520	110
M-MIPA/M-CDEA (50:50)	194	N/A	N/A	73	2.6	5.3	0.6	2540	112

(1): with epoxy resin EEW 180 – 190 g / eq and cure cycle: 2h@130C + 2h@190C
(2): tan δ by DMA
(3): Elongation @ maximum tensile strength in accordance with ISO 5271h @ 260°C
Sources: Arxada internal measurements and third-party data for equivalent / similar chemistries on file



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