

EPO-TEK[®] UV Cure Selector Guide

EPO-TEK [®]	VISCOSITY @ 23°C (cPs)	GLASS TRANSITION TEMPERATURE (Tg)	SHORE D HARDNESS	OUTGASSING @ 200°C	TGA DEGRADATION TEMPERATURE	CTE Below Tg / Above Tg (in/in/°C)	INDEX OF REFRACTION	SPECTRAL TRANSMISSION	COMMENTS
UVO114	@ 100 rpm 500	>50°C	80	2.70%	385°C	72 x 10 ⁻⁶ / 188 x 10 ⁻⁶	1.564	>90% 375 – 900nm	General Purpose
OG115-3	@ 20 rpm 11,000	94°C	63	n/a	391°C	64 x 10 ⁻⁶ / 129 x 10 ⁻⁶	1.5581	100% 550 – 990nm	Medium Viscosity, Fast Cure, High Tg
OG116-31	@ 10 rpm 25,000	90°C	82	0.50%	390°C	68 x 10 ⁻⁶ / 223 x 10 ⁻⁶	1.5684	>98% 450 – 900nm	Thixotropic, Chemical Resistant, Medical Grade
OG127-4	@ 0.5rpm 800,000	89°C	45	1.94%	360°C	61 x 10 ⁻⁶ / 182 x 10 ⁻⁶	1.602	>97% 600 – 900nm	High Index, Viscous
OG134	@ 100 rpm <100	37°C	48	1.92%	200°C	112 x 10 ⁻⁶ / 230 x 10 ⁻⁶	1.4163	>90% 400 – 900nm	Flexible, Low Index (Nd)
OG142	@ 20 rpm 9,257	116°C	86	1.25%	400°C	58 x 10 ⁻⁶ / 156 x 10 ⁻⁶	1.5686	>96% 500 – 900nm	Adhesive/Sealant for LCD/OLED
OG142-6	@ 10 rpm 25,395	98°C	85	0.40%	394°C	62 x 10 ⁻⁶ / 267 x 10 ⁻⁶	1.5672	>79% 600 – 900nm	Thixotropic, White Color
OG142-13	@ 100 rpm 368	>110°C	75	0.38%	368°C	63 x 10 ⁻⁶ / 124 x 10 ⁻⁶	1.5426	>96% 500 – 900nm	Low Moisture, Telcordia Grade
OG146	@ 100 rpm <40	90°C	70	1.90%	363°C	37 x 10 ⁻⁶ / 176 x 10 ⁻⁶	1.4767	>98% 350 – 900nm	Low Viscosity, Low Shrinkage, Non-Yellow
OG147	@ 10 rpm 35,000	121°C	80	0.47%	370°C	n/a	n/a	n/a	Black/Opaque, Thixotropic
OG147-7	@ 10 rpm 35,000	65°C	80	0.47%	370°C	n/a	n/a	n/a	Thixotropic, Glob Top
OG154	@ 10 rpm 35,000	100°C	78	2.97%	286°C	47 x 10 ⁻⁶ / 271 x 10 ⁻⁶	1.5668	>90% 380 – 900nm	High Tg & Viscosity, Used for Fiber Optic Components
OG159-2	@ 5 rpm 60,000	56°C/134°C*	85	0.63%	409°C	51 x 10 ⁻⁶ / 267 x 10 ⁻⁶	1.5679	>95% 900 – 2500nm	Thixotropic, Low Moisture, Bond Line Control, OLED
OG169	@ 100 rpm 82	96°C	80	0.82%	386°C	73 x 10 ⁻⁶ / 156 x 10 ⁻⁶	1.5078	100% 350 – 900nm	Low Shrinkage, USP Class VI Approved
OG175	@ 100 rpm 1,700	25°C	20	8.3%	229°C	58 x 10 ⁻⁶ / 232 x 10 ⁻⁶	1.4473	>95% 400 – 900nm	Low Index(Nd), Used for Fiber Optic Components
OG198-50	@ 100 rpm 368	104°C	82	0.10%	381°	55 x 10 ⁻⁶ / 220 x 10 ⁻⁶	1.5358	100% 650 – 900nm	Dual Cure, High Tg, Used for Fiber Optic Components
OG603	@ 100 rpm 300	90°C	85	4.80%	323°C	66 x 10 ⁻⁶ / 124 x 10 ⁻⁶	1.4768	100% 375 – 900nm	Medical Grade, Fast Cure (seconds)

Above is representative of Epoxy Technology's custom line of Photo Curable adhesives. Advantages include Command Cure, Low Shrinkage, Various Rheologies, Index Matching, Low Moisture Resistance, High Reliability. See data sheet for cure conditions.

*Denotes a UV Cure plus 150° for 1 hour.

DISCLAIMER: Data presented is provided only as a guide in selecting an adhesive. Properties listed are typical, average values, based on tests believed to be accurate. It is recommended the user perform a thorough evaluation for any application based on their specific requirements. Epoxy Technology makes no warranties (expressed or implied) and assumes no responsibility in connection with the use or inability to use these products.



14 Fortune Drive, Billerica, MA 01821-3972 USA PHONE: 978.667.3805 FAX: 978.663.9782 www.EPOTEK.com