



Active Alignment Adhesives

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	A535-AN	A539-DM	A1853-TX	A1855-TX	A1708-TX	TCR-1003-R1
Typical Applications	Fiber / V-Groove Glass lid Lens bonding	V-Groove array butt to chip Packaging	Packaging Active alignment by UV then heat for shade	Packaging Active alignment by UV then heat for shade	Packaging Active alignment by UV then heat for shade	Active alignment Underfill Thermal Conductive
Chemistry	1-part epoxy	1-part epoxy	1-part epoxy	1-part epoxy	1-part epoxy	1-part epoxy
Active Alignment	By UV	By UV	By UV	By UV	By UV	By UV
Shaded Cure	NO	Yes, by heat	Yes, by heat	Yes, by heat	Yes, by heat	Yes, by heat
Curing LED-365 nm or UV-A light	UV 10 J/cm ² heat optional 60 °C, 60 min	UV + heat 10 J/cm ² + 100°C, 60 min	UV + heat 10 J/cm ² + 80- 85°C, 60 min	UV + heat 10 J/cm ² + 80- 85°C, 60 min	UV + heat 10 J/cm ² + 150°C, 60 min	UV + heat 10 J/cm ² + 150°C, 60 min
Depth of UV Cure (microns)	2,000	1,000	250	750	750	200
Viscosity @ 25 °C (mPa·s)	4,000	2,000	65,000 @ 10/s Thixo Index 7	65,000 @ 10/s Thixo Index 7	13,000 @ 10/s Thixo Index 2	10,000 @ 10/s Thixo Index 2
Tg (°C)	170	145	165	180	168	166
Young's Modulus (MPa)	2,300	2,300	2,000	2,000	3,300	15,900
Operating Temp (°C)	-60 to 180	-60 to 180	-40 to 150	-40 to 150	-60 to 200	-40 to 150