



PRODUCT INFORMATION

HIGH TECHNOLOGY MATERIALS



MERECO 3535

FIBER OPTIC ADHESIVE

HIGH TEMPERATURE FAST CURING EPOXY ADHESIVE WITH COLOR CHANGE TO INDICATE CURE

MERECO 3535 is a two-component, quick-curing epoxy adhesive specifically designed for fiber optic and opto-electronic applications where a color change is required to indicate complete cure. This product has been designed for terminating single and multi-mode fiber optic connectors, fiber optic bundle potting, encapsulating glass fibers in ferrules, and bonding to a variety of substrates including most metals, glass, plastic and ceramic substrates.

PROPERTIES

Mix ratio by weight	100:10
Viscosity (mixed)	900 - 1000 cps @ 25° C
Resin	Epoxy
Color (unmixed)	Light yellow
Color (mixed)	Green - Blue
Color (cured)	Amber - Red
Cure (150° C)	45 seconds
Cure (120° C)	1 min
Cure (80° C)	15 min

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FORM 1105 REV. 0

Specific Gravity, g/cc, Resin	1.18 at 25° C
Specific Gravity, g/cc, Activator	0.98 at 25° C
Specific Gravity, g/cc, Mix	1.16 at 25° C
Pot Life (100 grams)	1 Hour
Operating temperature	(-60 ° C to + 175 ° C)
Glass Transition Temp (Tg)	124 C
Tensile lap shear strength, psi	2,300
CTE Below Tg	60.4 ppm/ ° C
CTE Above Tg	152.6 ppm/ ° C
Shore D Hardness	87
Index of Refraction	1.57
Consistency	Liquid
Water absorption	0.006
Viscosity	Resin 2900 - 3100 cps
	Hardener 200 - 400 cps
	Mix 2400 - 2600 cps
Substrates	glass, ceramics, plastics, metals
Packaging	2 part kits Dual cartridges Mix-packs Pre-mixed and frozen syringes
Applications	Single Mode, Multi-channel up to 125 micron core fibers, Connectors. Designed to meet Telecordia specifications. Epoxy can also be used in opto-electronic and medical applications
Shelf Life	1 Year
Storage Temperature	Ambient
Use	All surface to be clean and dry prior to application Mix thoroughly until uniform color is achieved Apply adhesive to substrate Cure per suitable time and temperature listed above Do not mix more than 4 grams per shot