



PRODUCT INFORMATION

HIGH TECHNOLOGY MATERIALS



MERECO 3577

FIBER OPTIC ADHESIVE

HIGH TEMPERATURE LOW VISCOSITY EPOXY ADHESIVE

MERECO 3577 is a two-component, quick-curing epoxy adhesive specifically designed for fiber optic and opto-electronic applications. 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	100:100
Viscosity (mixed)	150 - 300 cps @ 25° C
Resin	Epoxy
Color (unmixed)	Light yellow
Color (mixed)	Light yellow
Color (cured)	Amber
Cure (150° C)	30 min
Cure (120° C)	60 min

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FORM 1105 REV. 0

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Specific Gravity, g/cc, Resin	1.16 at 25° C
Specific Gravity, g/cc, Activator	0.98 at 25° C
Specific Gravity, g/cc, Mix	1.07 at 25° C
Pot Life (100 grams)	24 Hours
Operating temperature	(-60 ° C to + 200 ° C)
Glass Transition Temp (Tg)	99 C
Tensile lap shear strength, psi	2,400
CTE Below Tg	68 ppm/ ° C
CTE Above Tg	162 ppm/ ° C
Shore D Hardness	80
Index of Refraction	1.53
Consistency	Liquid
Water absorption	0.005
Viscosity	Resin 300-400 cps
	Hardener 100-200 cps
	Mix 150-300 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 20 grams per shot