



PRODUCT INFORMATION

HIGH TECHNOLOGY MATERIALS



MERECO 3554

FIBER OPTIC ADHESIVE

LONG POT LIFE EPOXY ADHESIVE WITH COLOR CHANGE TO INDICATE CURE

MERECO 3554 is a two-component, long pot life 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)	1,400 – 1,600 cps @ 25° C
Resin	Epoxy
Color (unmixed)	Light yellow
Color (mixed)	Light green
Color (cured)	Amber-red
Cure (150° C)	10 min
Cure (120° C)	30 min
Cure (100° C)	60 min
Cure (80° C)	90 min

Technical information and recommendations made by Mereco Division and Metachem Resins Corporation concerning products and uses or applications thereof, are based on reliable laboratory tests and are believed to be accurate. No warranty, however, is expressed or implied, nor is any warranty expressed or implied as to results to be obtained from use of said materials, whether used singly or in combination with other products. No statements made are to be construed as constituting a license under any existing patent.

FORM 1105 REV. 0

Mix ratio (Base to Activator)	100:10 by weight
Specific Gravity, g/cc, Resin	1.21 at 25° C
Specific Gravity, g/cc, Activator	1.13 at 25° C
Specific Gravity, g/cc, Mix	1.16 at 25° C
Pot Life (50 grams)	24 - 48 Hours
Operating temperature	(-60 ° C to + 175 ° C)
Glass Transition Temp (Tg)	105° C
Tensile lap shear strength, psi	1,600
CTE Below Tg	67.9 ppm/ ° C
CTE Above Tg	196 ppm/ ° C
Shore D Hardness	84
Index of Refraction	1.57
Consistency	Liquid
Water absorption	na
Viscosity	Resin 1,500 – 2,000 cps
	Hardener 1,100 – 1,300 cps
	Mix 1,400 – 1,600 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. 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