

Resin Technology Group TIGA 110-EXDP Low Viscosity, Optically Clear Glass Bonder

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Mix ratio 100/50 by volume. TIGA 110EX-DP is a transparent, low viscosity epoxy resin formulation recommended for industrial adhesive, small potting and laminating applications where sparkling clarity and excellent structural, mechanical and electrical properties are required. This two-part adhesive exhibits good wetting, cures at room temperature and develops strong, low shrinkage, bonds to most materials including optical fibers, glass, ceramics, most metals and many rigid plastics. It has excellent dimensional stability over a wide temperature range. Fully cured TIGA 110EX-DP is a durable electrical insulator with good physical properties, plus resistance to water, weather, ozone and oxygen, petroleum solvents, lubricating oils, jet fuel, gasoline, alcohol, salt solutions, mild acids and alkalis and many other organic and inorganic compounds. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-TIGA-110-EXDP-Low-Viscosity-Optically-Clear-Glass-Bonder.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	
Viscosity	2500 cP @Temperature 25.0 °C	2500 cP @Temperature 77.0 °F	Mixed
Collected Volatile Condensable Material	0.010 %	0.010 %	2 hours at 100°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	83	83	
Tensile Strength at Break	>= 50.3 MPa	>= 7300 psi	
Shear Strength	3.45 MPa @Temperature 100 °C	500 psi @Temperature 212 °F	Tensile lap
	17.2 MPa @Temperature 25.0 °C	2500 psi @Temperature 77.0 °F	Tensile lap

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 µm/m-°C @Temperature 20.0 °C	30.0 µin/in-°F @Temperature 68.0 °F	
Maximum Service Temperature, Air	135 °C	275 °F	
Softening Point	75.0 °C	167 °F	
Minimum Service Temperature, Air			

Thermal Properties	-60.0 °C Metric	-76.0 °F English	Comments
Glass Transition Temp, Tg	60.0 °C	140 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.58	1.58	
Transmission, Visible	80 %	80 %	Mfr. Specifies clear but does not quantify

Electrical Properties	Metric	English	Comments
Dielectric Strength	>= 15.7 kV/mm	>= 400 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	30 min	30 min	Small Mass

Descriptive Properties	Value	Comments
Color	Clear	

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