

Resin Technology Group TIGA 291-EX Grey Medium Viscosity Polyamide Epoxy Adhesive

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

Material Notes:

Mix ratio 1 to 1 by weight. TIGA 291 EX Grey is a medium viscosity polyamide/ epoxy adhesive recommended for bonding applications where high shock impact resistance and peel resistance are desired. This 1 to 1 ratio, two-part adhesive is easily mixed and cured at room temperature and develops tough, strong bonds to a wide variety of materials including metals, glass, ceramics and plastics. Fully cured TIGA 291 EX Grey bonds offer superior thermal shock resistance, mechanical, electrical and impact resistant properties and low permeability to gases and vapors. The cured material has good dimensional stability and resistance to water, weather, oxygen and ozone, most petroleum products, mild acids and alkalis and many other chemicals. Applications: This system is recommended for low-stress, high impact/high peel strength bonding applications of dissimilar materials. Some proven applications are repairing strain gages, sealing seams on fiberglass components, repair of printed circuits, bonding stainless inserts inside potentiometers, bonding glass to aluminum, bonding of Pyrex, wire to Lucite, rubber hose to steel tubing, metal to fiberglass, repairing plastic laminates and sealing polyurethane foam. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-TIGA-291-EX-Grey-Medium-Viscosity-Polyamide-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	Of hardener
	1.34 g/cc	1.34 g/cc	Of resin
Viscosity Measurement	40000	40000	Of hardener, RVT #7 @ 10 rpm
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	50000	50000	Mixed
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	60000	60000	Of resin, RVT #7 @ 10 rpm
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	110 °C	230 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

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

Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	2880 min	48.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	100 min	100 min	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Grey	

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