

Resin Technology Group TIGA 142-EX Toughened Epoxy Adhesive

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

Material Notes:

Mix ratio 2 to 1 by volume. TIGA 142-EX is a medium viscosity, sag resistant epoxy adhesive recommended for bonding applications where high shock impact resistance and peel resistance is desired. This two to one ratio, fast setting two-part adhesive is easily mixed and cured at room temperature and develops tough, strong bonds to a wide variety of materials including stainless steel, other metals, glass ceramics and plastics. Fully cured TIGA 142-EX 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. Information provided by Resin Technology Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resin-Technology-Group-TIGA-142-EX-Toughened-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	Of hardener, at 23°C
	1.50 g/cc	1.50 g/cc	Of resin
Viscosity Measurement	30000	30000	Of hardener
	80000	80000	Of resin

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	
Tensile Strength at Break	51.0 MPa	7400 psi	
Elongation at Break	3.5 %	3.5 %	
Tensile Modulus	2.14 GPa	310 ksi	
Shear Strength	19.3 MPa	2800 psi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	19.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	

Electrical Properties	Metric	English	Comments
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Dielectric Strength Electrical Properties	17.7 kV/mm Metric	450 kV/in English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	120 min	2.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
Pot Life	1440 min	24.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Color	Ivory	Resin
	Light tan	Hardener

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