

## Resin Technology Group TIGA 101-EX Five-Minute Epoxy Adhesive

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

### Material Notes:

1 part resin to 1 part hardener. TIGA 101-EX is an exceptional epoxy formulation, recommended for lower temperature or wet industrial bonding applications where fast curing is required. This clear, two-part, mild odor, medium- viscosity system mixes easily at room temperature, contains no solvents, and is suitable for high performance structural-bonding applications where the combination of very fast room temperature cure coupled with low shrinkage and excellent mechanical and electrical properties is required. It develops strong, tough bonds to metals, phenolic plastics, polyesters, glass and glass fabrics, hardboards and forestry products, ceramics, rubber, masonry materials, and other construction materials. Fully cured TIGA 101-EX is an excellent electrical insulator and provides superior resistance to vapors and gases, water, galvanic action, petroleum fuels, salt solutions, and many other organic and inorganic compounds. Applications: High speed bonding and repairs at low temperatures. Ideal for assembly lines and various production applications such as staking, fillet bonds, and general industrial repairs. Used in component assembly, appliances, electronics, and fiber optics. Sets in five minutes, reaches full strength in about one hour. Information provided by Resin Technology Group.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Resin-Technology-Group-TIGA-101-EX-Five-Minute-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Resin-Technology-Group-TIGA-101-EX-Five-Minute-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	Of resin
Viscosity	10000 - 16000 cP	10000 - 16000 cP	Of hardener at 25C
	11000 - 15000 cP	11000 - 15000 cP	Of resin
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	14000 - 17000 cP	14000 - 17000 cP	Mixed
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	28	28	Cured 10 minutes at 25°C
	68	68	Cured 30 minutes at 25°C
	74	74	Cured 10 minutes at 60°C
	78 - 82	78 - 82	
Shear Strength	15.2 - 22.1 MPa	2200 - 3200 psi	Lap
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	

Thermal Properties	Metric	English	Comments
Temperature, Air	50.3 °C	75.8 °F	
Electrical Properties	Metric	English	Comments
Dielectric Strength	16.3 kV/mm	415 kV/in	
Processing Properties	Metric	English	Comments
Pot Life	3.0 - 5.0 min	3.0 - 5.0 min	Small Mass
Descriptive Properties	Value	Comments	
Color	Transparent, Clear		

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