

Tra-Con Tra-Bond 970-1N1 General Purpose Epoxy Adhesive

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 970-1N1 is a general purpose epoxy that exhibits sag resistance and excellent bond strength to a wide variety of substrates.

Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-970-1N1-General-Purpose-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	Cured
Viscosity	60396 cP	60396 cP	Mixed (cp #52, 2.5 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Adhesive Bond Strength	20.7 MPa	3000 psi	Lap shear, alum to alum, 2 hrs @ 70°C

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	Alpha 1; TMA
Glass Transition Temp, Tg	83.0 °C	181 °F	Ultimate Tg, 20°C/min; TMA

Processing Properties	Metric	English	Comments
Cure Time	30.0 min @Temperature 100 °C	0.500 hour @Temperature 212 °F	
	120 min @Temperature 70.0 °C	2.00 hour @Temperature 158 °F	
Shelf Life	12.0 Month @Temperature -40.0 °C	12.0 Month @Temperature -40.0 °F	

Descriptive Properties	Value	Comments
Color	Blue	Cured
Thixotropic Index	2	1 rpm/10 rpm
Working Life hours	1.5	At 25°C

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