

Tra-Con Tra-Bond 2111 Rigid Epoxy Staking Compound

Category : Polymer , Adhesive , Thermoset , Epoxy

Material Notes:

TRA-BOND 2111 is a thixotropic epoxy resin and hardener formulation developed for industrial adhesive, staking, laminating, repair and manufacturing applications where long pot-life, good wetting, non-sag, non-drip and improved impact strength properties are required. This easy-to-use two part adhesive system contains no volatile solvents, readily cures at room temperature, and bonds to most materials including glass and glass fabrics, ceramics, wood, leather, most metals, and many plastics. Fully cured TRA-BOND 2111 is strong, tough, resilient, has superior mechanical impact and thermal shock resistance characteristics, and is also highly resistant to weather, water, gases and vapors, most petroleum products and fuels, salts, mild acids and alkalis, and many other organic and inorganic compounds. Information provided by Tra-Con Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Tra-Con-Tra-Bond-2111-Rigid-Epoxy-Staking-Compound.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	Mixed
Volatile Organic Compounds (VOC) Content	31.2 g/l	31.2 g/l	
Water Absorption	3.3 %	3.3 %	After 24 hours
Viscosity	40000 cP @Temperature 25.0 °C	40000 cP @Temperature 77.0 °F	Mixed (T-F spindle, 10 rpm)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	82	82	
Elongation at Yield	26 %	26 %	
Adhesive Bond Strength	24.1 MPa	3500 psi	Lap shear, alum to alum
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	30.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	
Maximum Service Temperature, Air	100 °C	212 °F	
Minimum Service Temperature, Air	-70.0 °C	-94.0 °F	
Glass Transition Temp, Tg	45.0 °C	113 °F	Ultimate Tg

Optical Properties	Metric	English	Comments
Refractive Index	1.53	1.53	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.50e+8 ohm-cm	9.50e+8 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	480 min	8.00 hour	4 hrs @ 25°C + 4 hrs @ 65°C-plus
	1440 min @Temperature 25.0 °C	24.0 hour @Temperature 77.0 °F	
Pot Life	20 min	20 min	100 grams
	40 min	40 min	25 grams

Descriptive Properties	Value	Comments
Color	Hazy White	
Mix Ratio, parts by weight	100/30	Resin/Hardener
Working Life hours	1	25 grams
Working Life minutes	20	100 grams

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