

Fibre Glast 1101 High-Strength General Purpose Epoxy Adhesive

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

Material Notes:

Description: #1101 is a light grayish-tan two part epoxy adhesive that was developed especially for difficult bonding problems involving similar or dissimilar materials. #1101 provides excellent adhesion to a wide variety of materials such as aluminum, steel, brass, concrete, brick, glass, stone, ceramics, tile, and wood. #1101 has very good handling characteristics. The mix ratio of 1 to 1 by weight or volume allows for easy measuring. It has a creamy, smooth viscosity. It is very easy to mix, and has good thixotropy for application to contoured or vertical surfaces without sag or runoff. #1101 cures relatively quickly, developing sufficient "green strength" to allow bonded items to be removed from the holding fixtures and handled within a few hours. The cured material has excellent strength as well as good resistance to weak acids, moisture and weather.

Applications: #1101 is an excellent adhesive for all types of bonding applications. It is very versatile, and can bond a wide variety of materials, so it becomes an effective tool in general shop situations. Often #1101 will outperform other supposed high performance materials, and give handling advantages as well. It has been successfully used for many years in a variety of general bonding uses as well as numerous production applications. Information provided by Fibre Glast Developments Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fibre-Glast-1101-High-Strength-General-Purpose-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D1475
Water Absorption	<= 0.20 %	<= 0.20 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	Cured; ASTM D2240
Tensile Strength at Break	49.6 MPa	7200 psi	Cast bar; ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D412
Compressive Yield Strength	98.6 MPa	14300 psi	ASTM D695
Adhesive Bond Strength	24.0 MPa	3480 psi	Lap Shear; Aluminum to Aluminum; ASTM D1002

Processing Properties	Metric	English	Comments
Cure Time	180 - 240 min	3.00 - 4.00 hour	Handling strength in 3 to 4 hrs.
	45.0 - 60.0 min @Temperature 60.0 Â°C	0.750 - 1.00 hour @Temperature 140 Â°F	Full cure in 45 to 60 mins at 140Â°F.
	360 - 480 min @Temperature 25.0 Â°C	6.00 - 8.00 hour @Temperature 77.0 Â°F	Full Cure

Processing Properties	Metric 10.0 min	English 0.0 min	Comments lbm; ASTM D2471
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Descriptive Properties	Value	Comments
Mix Ratio	1:1	Resin:Hardener by Volume
	100:100	Resin:Hardener by Weight

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