

Master Bond EP51FL-1 Rapid Curing Cryogenic Two Component Epoxy

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

Material Notes:

Master Bond Polymer System EP51FL-1 is a two component highly flexible epoxy resin system for high performance bonding sealing and coating. Although most flexibilized epoxy formulations are very slow curing, EP51FL-1 offers a relatively rapid cure, with a setup time in most cases of about 30-40 minutes and full cure within 24 hours at room temperature. EP51FL-1 has been used in cryogenic applications as both an adhesive and sealant. Its service temperature range is 4K to 250°F.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP51FL-1-Rapid-Curing-Cryogenic-Two-Component-Epoxy.php

Physical Properties	Metric	English	Comments
Viscosity	70000 - 80000 cP	70000 - 80000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55 - 60	55 - 60	
Hardness, Shore D	12 - 15	12 - 15	
Tensile Strength	7.93 MPa	1150 psi	
Elongation at Break	>= 125 %	>= 125 %	
Shear Strength	>= 6.89 MPa	>= 1000 psi	Tensile, Al/Al
Peel Strength	>= 6.14 kN/m	>= 35.0 pli	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	48.9 °C	120 °F	
Minimum Service Temperature, Air	-269 °C	-452 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature 93.3 °C	@Temperature 200 °F	
	1440 min	24.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Pot Life Processing Properties	15 - 20 min Metric	15 - 20 min English	100 gm mass Comments
Shelf Life	12.0 Month	12.0 Month	in unopened containers

Descriptive Properties	Value	Comments
Mixing Ratio (A to B)	1:3	

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