

Master Bond EP36CLV One Component Heat Resistant Liquid Flexible Epoxy

Category : Polymer , Thermoset , Epoxy , Epoxy Encapsulant, Unreinforced , Epoxy, High Temperature

Material Notes:

Master Bond Polymer System EP36CLV is a one component, high temperature resistant, B staged epoxy that cures with excellent toughness and is far less rigid than typical high temperature resistant epoxies. It is serviceable for temperatures up to 500°F and is used primarily for potting and encapsulation applications. EP36CLV is semi-solid at room temperature and requires heating by ramping up the temperature slowly to 160-180°F. Once liquefied, it is applied while hot to the encapsulation and then cured for 4-8 hours at 350°F.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-EP36CLV-One-Component-Heat-Resistant-Liquid-Flexible-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Water Absorption	0.30 %	0.30 %	
Viscosity	500 - 1000 cP @Temperature 82.2 °C	500 - 1000 cP @Temperature 180 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	20 @Temperature 100 °C	20 @Temperature 212 °F	
	40 @Temperature 25.0 °C	40 @Temperature 77.0 °F	
Tensile Strength	58.6 MPa	8500 psi	
Flexural Strength	121 MPa	17600 psi	
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	

Thermal Properties	Metric	English	Comments
CTE, linear	51.0 μm/m-°C	28.3 μin/in-°F	
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-73.3 °C	-100 °F	
Shrinkage	>= 2.0 %	>= 2.0 %	

Processing Properties	Metric	English	Comments
Cure Time	240 - 480 min	4.00 - 8.00 hour	

Processing Properties	@Temperature 177 °C Metric	@Temperature 350 °F English	Comments
Shelf Life	12.0 Month	12.0 Month	in original unopened containers

Descriptive Properties	Value	Comments
Heat Stability	Negligible change in electrical properties after 1000 hrs at 200°C	
Thermal Shock Resistance	excellent	-65°C - 150°C
Viscosity	Solid	75°F

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