

Resinlab® EP1325LV Thixotropic, Heat Curing Epoxy Adhesive

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

Material Notes:

Resinlab™ EP1325 and EP1325LV are one part thixotropic, heat curing epoxy adhesives. They can also be used as a small mass potting compounds, staking or damming adhesives, or polymer systems where the application requires low shrinkage and excellent adhesion to a wide variety of plastics, metals and circuit board materials. These products give very good environmental protection and dielectric properties over a wide temperature range. The primary difference between the two versions is the LV version has a lower high shear viscosity (higher press flow rate) to provide easier dispensing. The amount of sag upon curing is the same. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinlab-EP1325LV-Thixotropic-Heat-Curing-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	TM R050-16
Water Absorption	0.11 % @Time 86400 sec	0.11 % @Time 24.0 hour	TM R050-35
Viscosity	250000 cP	250000 cP	RVT, #7, 2.5 rpm; TM R050-12

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	85	85	TM R050-17
Tensile Strength at Break	44.8 MPa	6500 psi	TM R050-36
Tensile Strength, Ultimate	44.8 MPa	6500 psi	TM R050-36
Tensile Strength, Yield	34.5 MPa	5000 psi	TM R050-36
Elongation at Break	0.00 - 1.0 %	0.00 - 1.0 %	TM R050-36
Tensile Modulus	4.83 GPa	700 ksi	TM R050-36
Compressive Yield Strength	89.6 MPa	13000 psi	TM R050-38
Compressive Strength	96.5 MPa	14000 psi	Break; TM R050-38
	117 MPa	17000 psi	Ultimate; TM R050-38
Compressive Modulus	4.14 GPa	600 ksi	TM R050-38
Adhesive Bond Strength	12.4 MPa	1800 psi	Lap shear; 2024 T3 Al Abraded / MEK Wipe; TM R050-37

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

CTE linear Thermal Properties	48.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ Metric	26.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ English	Comments
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Glass Transition Temp, Tg	97.0 °C	207 °F	TM R050-25

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+14 ohm-cm	8.00e+14 ohm-cm	
Dielectric Constant	3.5	3.5	
	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	17.3 kV/mm	440 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	5.00 - 10.0 min	0.0833 - 0.167 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	15.0 min	0.250 hour	
	@Temperature 120 °C	@Temperature 248 °F	
	30.0 min	0.500 hour	
	@Temperature 110 °C	@Temperature 230 °F	

Descriptive Properties	Value	Comments
Color	Black	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China