

Resinlab® EP950G Gray Aluminum Filled Rubber Modified Epoxy

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

Material Notes:

EP950G Gray is an aluminum filled one part rubber modified epoxy designed for bonding metal and other structural material subject to stress at elevated temperature. It is a medium paste-like viscosity which gives very little sag upon cure at elevated temperature. Being a 100% solids, single component product a variety of simple, low cost dispensing methods are available for application of this product. This product will cure at temperatures as low as 113°C (235°F) without sacrificing shelf life or need for unusual shipping or storage considerations. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinlab-EP950G-Gray-Aluminum-Filled-Rubber-Modified-Epoxy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	TM R050-16
Water Absorption	1.46 %	1.46 %	TM R050-35
	@Time 86400 sec	@Time 24.0 hour	
Viscosity	750000 cP	750000 cP	RVT, #7, 2.5 rpm; TM R050-12

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	TM R050-17
Tensile Strength at Break	65.5 MPa	9500 psi	TM R050-36
Tensile Strength, Ultimate	65.5 MPa	9500 psi	TM R050-36
Tensile Strength, Yield	17.2 MPa	2500 psi	TM R050-36
Elongation at Break	2.0 - 4.0 %	2.0 - 4.0 %	TM R050-36
Tensile Modulus	3.79 GPa	550 ksi	TM R050-36
Adhesive Bond Strength	20.7 MPa	3000 psi	Lap shear; 2024 T3 Al Abraded / MEK Wipe; TM R050-37
Peel Strength	0.877 - 1.23 kN/m	5.00 - 7.00 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 µm/m-°C	27.2 µin/in-°F	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	175 °C	347 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Thermal Properties mp, Tg	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
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Volume Resistivity	8.00e+9 ohm-cm	8.00e+9 ohm-cm	
Dielectric Constant	4.7	4.7	
	@Frequency 100 Hz, Temperature 25.0 °C	@Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	4.33 kV/mm	110 kV/in	

Processing Properties	Metric	English	Comments
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Cure Time	20.0 min	0.333 hour	
	@Temperature 177 °C	@Temperature 351 °F	
	40.0 min	0.667 hour	
	@Temperature 150 °C	@Temperature 302 °F	
	45.0 min	0.750 hour	
	@Temperature 135 °C	@Temperature 275 °F	
	150 min	2.50 hour	
	@Temperature 121 °C	@Temperature 250 °F	

Descriptive Properties	Value	Comments
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Color	Gray	
Pot Life (Months)	3	at 25°C, Mass: 100g
	6	at <5°C, Mass: 100g

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