

Resinlab® EP1294 Mineral Filled, Flame Retardant Epoxy Syntactic Foam

Category : Polymer , Thermoset , Epoxy , Epoxy Molding Compound

Material Notes:

Resinlab™ EP1294 is a two part mineral filled, flame retardant epoxy syntactic foam. It utilizes glass microspheres to reduce cured density and improve machinability. This product will be self-extinguishing when tested at 1/4" thickness. It also provides excellent protection against water, humidity, salt spray and other chemicals. It was formulated to an easy 2:1 volume mix ratio for use in meter-mix and dispense equipment. EP1294 will cure to a firm handle strength at room temperature in about 8 to 10 hours. Full cure requires 24 hours. Cure time can be accelerated by the application of heat. Time to heat substrate must be taken into account. Cooler temperatures will also extend work time and increase cure times. Warming the cartridge will aid in increasing dispensing flow rate and boost cure speed. Depending upon method used to warm the cartridge care should be taken to avoid localized overheating. If a microwave is used, any metal components should be removed and user should carefully determine optimum time for each microwave as they can vary in power output. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinlab-EP1294-Mineral-Filled-Flame-Retardant-Epoxy-Syntactic-Foam.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.550 g/cc	0.550 g/cc	Part B; TM R050-16
	0.570 g/cc	0.570 g/cc	Mixed; TM R050-16
	0.580 g/cc	0.580 g/cc	Part A; TM R050-16
Water Absorption	0.37 %	0.37 %	TM R050-35
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	TM R050-17
Tensile Strength at Break	16.5 MPa	2400 psi	TM R050-36
Tensile Strength, Ultimate	16.5 MPa	2400 psi	TM R050-36
Tensile Strength, Yield	6.89 MPa	1000 psi	TM R050-36
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	TM R050-36
Tensile Modulus	1.59 GPa	230 ksi	TM R050-36
Compressive Yield Strength	17.2 MPa	2500 psi	TM R050-38
Compressive Strength	6.89 MPa	1000 psi	Break; TM R050-38
	18.6 MPa	2700 psi	Ultimate; TM R050-38
Compressive Modulus	1.52 GPa	220 ksi	TM R050-38

Mechanical Properties	Metric	English	Comments
Adhesive Bond Strength	0.50 MPa	73.0 psi	2024 T3 Al Abraded / MEK Wipe, TM R050-37

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Glass Transition Temp, Tg	75.0 °C	167 °F	TM R050-25

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	
	@Temperature 65.0 °C	@Temperature 149 °F	
	1440 - 4320 min	24.0 - 72.0 hour	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Pot Life	8.0 - 12 min	8.0 - 12 min	Mass: 50g; TM R050-19

Descriptive Properties	Value	Comments
Color	Yellow	
Mix Ratio	100:45	Weight
	2:1	Volume
Viscosity	Soft Paste	Part A
	Soft Paste	Part B
	Soft Paste	Mixed

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