

Resinlab® EP11HTFS Gray Filled Epoxy Adhesive

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

Material Notes:

Resinlab™ EP11HTFS Gray is a two part filled epoxy adhesive designed for bonding metals and plastics. It cures at room temperature to a tough, semi-rigid material. It has good wetting to most surfaces and is very thixotropic to resist running and sagging. This product gives very good vibration and impact resistance. It gives good resistance to water, salt spray, inorganic acids and bases and most organic solvents. It was especially formulated to a 1A:1B volume mix ratio for use in side-by-side dispensing cartridges and meter/mix and dispense equipment. EP11HTFS Gray will reach initial cure at room temperature within 2 – 4 hours with full cure in 24 – 48 hours. Cure time can be accelerated by the application of heat. Times and temperatures from 1 hour at 65°C to 15 minutes at 100°C are typical for most applications. Time to heat substrate must be taken into account. Cooler temperatures will also extend work time and increase cure times. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Resinlab-EP11HTFS-Gray-Filled-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	Part A; TM R050-16
	1.28 g/cc	1.28 g/cc	Mixed; TM R050-16
	1.29 g/cc	1.29 g/cc	Part B; TM R050-16
Water Absorption	0.17 %	0.17 %	TM R050-35
	@Time 86400 sec	@Time 24.0 hour	
Viscosity	700000 cP	700000 cP	Part B, RVT, #7, 2.5 rpm; TM R050-12
	750000 cP	750000 cP	Mixed; TM R050-12
	800000 cP	800000 cP	Part A, 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	48.3 MPa	7000 psi	TM R050-36
Tensile Strength, Ultimate	48.3 MPa	7000 psi	TM R050-36
Tensile Strength, Yield	24.1 MPa	3500 psi	TM R050-36
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	TM R050-36
Tensile Modulus	3.79 GPa	550 ksi	TM R050-36
Compressive Yield Strength	79.3 MPa	11500 psi	TM R050-38
Compressive Strength			Break; TM R050-38

Mechanical Properties	138 MPa Metric	20000 psi English	Comments
	141 MPa	20500 psi	Ultimate; TM R050-38
Compressive Modulus	3.34 GPa	485 ksi	TM R050-38
Adhesive Bond Strength	15.9 MPa	2300 psi	Lap shear; 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	71.0 °C	160 °F	TM R050-25

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+14 ohm-cm	8.00e+14 ohm-cm	
Dielectric Constant	4.5 @Frequency 100 Hz, Temperature 25.0 °C	4.5 @Frequency 100 Hz, Temperature 77.0 °F	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 65.0 °C	2.00 hour @Temperature 149 °F	
	1440 - 4320 min @Temperature 25.0 °C	24.0 - 72.0 hour @Temperature 77.0 °F	
Pot Life	30 - 40 min	30 - 40 min	Mass: 50g; TM R050-19

Descriptive Properties	Value	Comments
Color	Gray	
Mix Ratio	1:1	Weight and Volume

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