

## Resinlab® EP1026R Rubber Modified Epoxy Adhesive

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

### Material Notes:

Resinlab™ EP1026R is a two part unfilled rubber modified epoxy adhesive designed for high speed bonding of metals, ceramics, and most plastics. It cures to a tough semi-rigid material, and is free flowing in viscosity. It gives good resistance to water, salt spray, inorganic acids and bases, and most organic solvents. It was especially formulated to a 1:1 mix ratio for use in either MMD equipment or side-by-side dual cartridges for easy dispensing. A handling cure is normally achieved at room temperature within 20 - 30 minutes with full cure in 24 hours. An elevated temperature cure schedule can be used to reach final properties quickly. Information Provided by Resinlab L.L.C., an Ellsworth Adhesives Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Resinlab-EP1026R-Rubber-Modified-Epoxy-Adhesive.php](http://www.lookpolymers.com/polymer_Resinlab-EP1026R-Rubber-Modified-Epoxy-Adhesive.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	Part A; TM R050-16
	1.12 g/cc	1.12 g/cc	Mixed; TM R050-16
	1.13 g/cc	1.13 g/cc	Part B; TM R050-16
Water Absorption	4.65 %	4.65 %	TM R050-35
	@Time 86400 sec	@Time 24.0 hour	
Viscosity	7000 cP	7000 cP	Part A, RVT, #5, 2.5 rpm; TM R050-12
	11000 cP	11000 cP	Mixed; TM R050-12
	15000 cP	15000 cP	Part B, RVT, #5, 2.5 rpm; TM R050-12

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	TM R050-17
Tensile Strength at Break	8.96 MPa	1300 psi	TM R050-36
Tensile Strength, Ultimate	8.96 MPa	1300 psi	TM R050-36
Tensile Strength, Yield	6.21 MPa	900 psi	TM R050-36
Elongation at Break	150 %	150 %	TM R050-36
Tensile Modulus	0.0345 - 0.0689 GPa	5.00 - 10.0 ksi	TM R050-36
Compressive Yield Strength	11.0 MPa	1600 psi	TM R050-38
Compressive Strength	>= 193 MPa	>= 28000 psi	Ultimate; TM R050-38
	>= 193 MPa	>= 28000 psi	Break; TM R050-38

Mechanical Properties	Metric <sup>1</sup> - 0.0483 GPa	English <sup>00</sup> ksi	Comments <sup>0</sup>
Adhesive Bond Strength	6.89 MPa	1000 psi	Lap shear; 2024 T3 Al Abraded / MEK Wipe; TM R050-37

Thermal Properties	Metric	English	Comments
CTE, linear	181 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature $\geq 20.0$ $^\circ\text{C}$	101 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature $\geq 68.0$ $^\circ\text{F}$	above Tg
Thermal Conductivity	0.147 W/m-K	1.02 BTU-in/hr-ft <sup>2</sup> - $^\circ\text{F}$	
Maximum Service Temperature, Air	90.0 $^\circ\text{C}$	194 $^\circ\text{F}$	
Minimum Service Temperature, Air	-40.0 $^\circ\text{C}$	-40.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	20.0 $^\circ\text{C}$	68.0 $^\circ\text{F}$	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 $^\circ\text{C}$	4.5 @Frequency 100 Hz, Temperature 77.0 $^\circ\text{F}$	
Dielectric Strength	16.1 kV/mm	410 kV/in	

Processing Properties	Metric	English	Comments
Pot Life	3.0 - 5.0 min	3.0 - 5.0 min	Mass: 50g; TM R050-19

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

## Contact Songhan Plastic Technology Co.,Ltd.

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