

3M Scotch-Weld™ 2214 Regular Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Adhesive 2214 Regular is an aluminum filled general purpose product for use in applications where high strength bonds are needed in a temperature range of -53-121°C. One part 250°F (121°C) curing 100% solids, 3M™ Scotch-Weld™ Epoxy Adhesive 2214 is a paste consistency epoxy adhesive designed for bonding metals and many high temperature plastics such as fiberglass reinforced plastic, polyester, and phonetics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-2214-Regular-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	60 - 200 cP	60 - 200 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 85	>= 85	
Tensile Strength, Ultimate	68.9 MPa	10000 psi	
Elongation at Break	<= 2.0 %	<= 2.0 %	
Modulus of Elasticity	5.17 GPa	750 ksi	
Shear Strength	2.76 MPa	400 psi	Aluminum Overlap
	@Temperature 177 °C	@Temperature 351 °F	
	4.14 MPa	600 psi	Aluminum Overlap
	@Temperature 149 °C	@Temperature 300 °F	
	10.3 MPa	1500 psi	Aluminum Overlap
	@Temperature 121 °C	@Temperature 250 °F	
	20.7 MPa	3000 psi	Aluminum Overlap
	@Temperature -53.0 °C	@Temperature -63.4 °F	
	31.0 MPa	4500 psi	Aluminum Overlap
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	31.0 MPa	4500 psi	Aluminum Overlap
	@Temperature 82.0 °C	@Temperature 180 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	49.0 µm/m-°C	27.2 µin/in-°F	

Thermal Properties	Metric @Temperature 0.000 - 30.0 °C	English @Temperature 32.0 - 119 °F	Comments
Thermal Conductivity	0.399 W/m-K	2.77 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.80e+13 ohm-cm	2.80e+13 ohm-cm	
Surface Resistance	9.80e+12 ohm	9.80e+12 ohm	
Dielectric Constant	10.5	10.5	ASTM D150
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	11.1	11.1	ASTM D150
	@Temperature 60.0 °C	@Temperature 140 °F	
	16.7	16.7	ASTM D150
	@Temperature 90.0 °C	@Temperature 194 °F	
	24	24	ASTM D150
	@Temperature 104 °C	@Temperature 219 °F	
Dielectric Strength	3.03 kV/mm	77.0 kV/in	
	@Thickness 0.930 mm	@Thickness 0.0366 in	
Dissipation Factor	0.126	0.126	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.346	0.346	
	@Temperature 90.0 °C	@Temperature 194 °F	
	0.463	0.463	
	@Temperature 60.0 °C	@Temperature 140 °F	
	0.515	0.515	
	@Temperature 104 °C	@Temperature 219 °F	
Arc Resistance	76 sec	76 sec	

Descriptive Properties	Value	Comments
Appearance	Gray	

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