

3M Scotch-Weld™ 2214 Hi-Temp Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Adhesive 2214 Hi-Temp is an aluminum filled, deaerated products fro use where higher strengths are required between 82-177°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 phenolicsInformation provided by 3M

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Viscosity	15 - 30 cP	15 - 30 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 88	>= 88	
Tensile Strength, Ultimate	55.2 MPa	8000 psi	
Elongation at Break	1.0 %	1.0 %	
Modulus of Elasticity	5.52 GPa	800 ksi	
Shear Strength	6.21 MPa	900 psi	Aluminum Overlap
	@Temperature 177 °C	@Temperature 351 °F	
	13.8 MPa	2000 psi	Aluminum Overlap
	@Temperature -53.0 °C	@Temperature -63.4 °F	
	13.8 MPa	2000 psi	Aluminum Overlap
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	17.2 MPa	2500 psi	Aluminum Overlap
	@Temperature 121 °C	@Temperature 250 °F	
	17.2 MPa	2500 psi	Aluminum Overlap
	@Temperature 149 °C	@Temperature 300 °F	
	20.7 MPa	3000 psi	Aluminum Overlap
	@Temperature 82.0 °C	@Temperature 180 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 μm/m-°C	26.7 μin/in-°F	

Thermal Properties	@Temperature 0.000 - Metric 30.0 °C	@Temperature 32.0 - English 77.0 °F	Comments
Thermal Conductivity	0.327 W/m-K	2.27 BTU-in/hr-ft ² -°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.40e+13 ohm-cm	9.40e+13 ohm-cm	
Surface Resistance	1.10e+17 ohm	1.10e+17 ohm	
Dielectric Constant	6.2	6.2	ASTM D150
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.6	7.6	ASTM D150
	@Temperature 60.0 °C	@Temperature 140 °F	
Dielectric Strength	7.8	7.8	ASTM D150
	@Temperature 90.0 °C	@Temperature 194 °F	
Dielectric Strength	8.0	8.0	ASTM D150
	@Temperature 104 °C	@Temperature 219 °F	
Dielectric Strength	13.7 kV/mm	347 kV/in	
	@Thickness 0.965 mm	@Thickness 0.0380 in	
Dissipation Factor	0.021	0.021	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.023	0.023	
	@Temperature 60.0 °C	@Temperature 140 °F	
Dissipation Factor	0.025	0.025	
	@Temperature 90.0 °C	@Temperature 194 °F	
Dissipation Factor	0.025	0.025	
	@Temperature 104 °C	@Temperature 219 °F	
Arc Resistance	119 sec	119 sec	

Descriptive Properties	Value	Comments
Appearance	Gray	

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