

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

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Adhesive 2214 Hi-Dense is a deaerated version of Scotch-Weld adhesive 2214 regular for use where a very dense, void free bondline is required. 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 phenolics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-2214-Hi-Dense-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	
	11.7 MPa	1700 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	@Temperature 0.000 - Metric 30.0 °C	@Temperature 32.0 - English 77.0 °F	Comments
Thermal Conductivity	0.399 W/m-K	2.77 BTU-in/hr-ft ² -°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		
Dielectric Constant	@Temperature 60.0 °C	@Temperature 140 °F	ASTM D150	
	16.7	16.7	ASTM D150	
	@Temperature 90.0 °C	@Temperature 194 °F		
24	24			
Dielectric Strength	@Temperature 104 °C	@Temperature 219 °F	ASTM D150	
	3.03 kV/mm	77.0 kV/in		
	@Thickness 0.930 mm	@Thickness 0.0366 in		
0.126	0.126			
Dissipation Factor	@Temperature 23.0 °C	@Temperature 73.4 °F		
	0.346	0.346		
	@Temperature 90.0 °C	@Temperature 194 °F		
Dissipation Factor	0.463	0.463		
	@Temperature 60.0 °C	@Temperature 140 °F		
	0.515	0.515		
Dissipation Factor	@Temperature 104 °C	@Temperature 219 °F		
	Arc Resistance	76 sec		76 sec

Descriptive Properties	Value	Comments
Appearance	Gray	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China