

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

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Adhesive 2214 Hi-Temp Formula 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 phenolics Information provided by 3M

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Viscosity	100 - 250 cP	100 - 250 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 85	>= 85	
Elongation at Break	1.0 %	1.0 %	
Shear Strength	8.27 MPa	1200 psi	Aluminum Overlap
	@Temperature 177 °C	@Temperature 351 °F	
	13.8 MPa	2000 psi	Aluminum Overlap
	@Temperature 149 °C	@Temperature 300 °F	
	17.2 MPa	2500 psi	Aluminum Overlap
	@Temperature 121 °C	@Temperature 250 °F	
	19.3 MPa	2800 psi	Aluminum Overlap
@Temperature -53.0 °C	@Temperature -63.4 °F		
19.3 MPa	@Temperature 24.0 °C	2800 psi	Aluminum Overlap
		@Temperature 75.2 °F	
19.3 MPa	2800 psi	Aluminum Overlap	
@Temperature 82.0 °C	@Temperature 180 °F		

Thermal Properties	Metric	English	Comments
CTE, linear	44.0 µm/m-°C	24.4 µin/in-°F	
	@Temperature -60.0 - 80.0 °C	@Temperature -76.0 - 176 °F	
Thermal Conductivity	0.429 W/m-K	2.98 BTU-in/hr-ft²-°F	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Dielectric Constant	4.61	4.61	ASTM D150
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.96	4.96	ASTM D150
	@Temperature 60.0 °C	@Temperature 140 °F	
Dissipation Factor	0.0135	0.0135	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.018	0.018	
	@Temperature 60.0 °C	@Temperature 140 °F	

Descriptive Properties	Value	Comments
Appearance	Gray	

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