

3M Scotch-Weld™ 2216 B/A Translucent Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive 2216 B/A is a flexible, two-part, room temperature curing epoxy with high peel and shear strength. Scotch-Weld epoxy adhesive 2216 B/A is identical to 3M Scotch-Weld Epoxy Adhesive EC-2216 B/A in chemical composition. Scotch-Weld epoxy adhesive 2216 B/A may be used for aircraft and aerospace applications if proper Certificates of Test have been issued and material meets all aircraft manufacturer's specification requirements. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-2216-BA-Translucent-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Brookfield Viscosity	5000 - 9000 cP	5000 - 9000 cP	Accelerator, RVF #7 spindle, 20 rpm
	11000 - 15000 cP	11000 - 15000 cP	Base, RVF #7 spindle, 20 rpm

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	35 - 50	35 - 50	
Shear Modulus	0.342 GPa	49.6 ksi	Torsion Pendulum Method
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	1.509 GPa	218.8 ksi	Torsion Pendulum Method
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	1.946 GPa	282.3 ksi	Torsion Pendulum Method
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Shear Strength	2.1984 GPa	318.85 ksi	Torsion Pendulum Method
	@Temperature -60.0 °C	@Temperature -76.0 °F	
	2.74 GPa	398 ksi	Torsion Pendulum Method
	@Temperature -100 °C	@Temperature -148 °F	
	8.69 MPa	1260 psi	Overlap, Etched Al, Salt Spray at RT for 30 days
	9.58 MPa	1390 psi	Overlap, Etched Al, 100% RH at 49°C for 30 days
13.4 MPa	1950 psi	Overlap, Etched Al, Tap water at RT for 30 days	
17.2 MPa	2500 psi	Overlap, Etched Al, Anti-icing Fluid at RT for 7 days	
17.2 MPa	2500 psi	Overlap, Etched Al, Hydraulic Oil at RT for 30 days	

Mechanical Properties	Metric	English	Comments
	20.7 MPa	3000 psi	Overlap, Etched Al, Hydrocarbon Fluid for 7 days
	24.1 MPa	3500 psi	Overlap, Etched Al, Air at 149°C for 40 days
	0.965 MPa @Temperature 82.0 °C	140 psi @Temperature 180 °F	Overlap, Etched Aluminum; ASTM D1002
	11.7 MPa @Temperature 24.0 °C	1700 psi @Temperature 75.2 °F	Overlap, Etched Aluminum; ASTM D1002
	20.7 MPa @Temperature -53.0 °C	3000 psi @Temperature -63.4 °F	Overlap, Etched Aluminum; ASTM D1002
Peel Strength	4.38 kN/m	25.0 pli	

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 µm/m-°C @Temperature -50.0 - 0.000 °C	45.0 µin/in-°F @Temperature -58.0 - 32.0 °F	
	207 µm/m-°C @Temperature 60.0 - 150 °C	115 µin/in-°F @Temperature 140 - 302 °F	
Thermal Conductivity	0.197 W/m-K	1.37 BTU-in/hr-ft²-°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+12 ohm-cm	3.00e+12 ohm-cm	@ 500 volts DC
Dielectric Constant	14.17 @Frequency 1000 Hz	14.17 @Frequency 1000 Hz	
	24.8 kV/mm	630 kV/in	
Dissipation Factor	0.229 @Frequency 1000 Hz	0.229 @Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time	720 - 960 min	12.0 - 16.0 hour	Time to Handling Strength

Descriptive Properties	Value	Comments
------------------------	-------	----------

Appearance Descriptive Properties	Amber Value	Accelerator Comments
	Translucent	Base
	Translucent	

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