

3M Scotch-Weld™ 183 B/A Green Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive 1838 B/A is a controlled flow product. This epoxy adhesives are two-part, room temperature curing structural adhesives with high shear strengths and excellent environmental resistance. Excellent for bonding many metals, woods, rubbers and some plastics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-183-BA-Green-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	300000 - 1.00e+6 cP	300000 - 1.00e+6 cP	
	70000 - 6.00e+6 cP	70000 - 6.00e+6 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 85	80 - 85	
Tensile Strength, Ultimate	29.6 MPa	4290 psi	
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	
Modulus of Elasticity	2.37 GPa	344 ksi	
Shear Strength	7.58 MPa	1100 psi	CRS Overlap, White Gas @ RT
	13.4 MPa	1950 psi	CRS Overlap, Tap Water at RT
	13.8 - 15.2 MPa	2000 - 2200 psi	CRS Overlap
	15.2 MPa	2200 psi	CRS Overlap, 100% RH at 49°C
Shear Strength	15.5 MPa	2250 psi	CRS Overlap, Hydraulic Oil at RT
	3.45 MPa	500 psi	Aluminum Overlap; ASTM D1002
	@Temperature 82.0 °C	@Temperature 180 °F	
Shear Strength	10.3 MPa	1500 psi	Aluminum Overlap; ASTM D1002
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Shear Strength	20.7 MPa	3000 psi	Aluminum Overlap; ASTM D1002
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Peel Strength	0.351 kN/m	2.00 pli	Aluminum T-Peel; ASTM D1876
	@Temperature -55.0 °C	@Temperature -67.0 °F	
Peel Strength	0.701 kN/m	4.00 pli	

Mechanical Properties	Metric	English	Comments
	@Temperature 24.0 °C	@Temperature 75.2 °F	Aluminum T-Peel; ASTM D1876
	0.701 kN/m	4.00 pli	Aluminum T-Peel; ASTM D1876
	@Temperature 82.0 °C	@Temperature 180 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	79.0 µm/m-°C	43.9 µin/in-°F	
	@Temperature 0.000 - 40.0 °C	@Temperature 32.0 - 104 °F	
Thermal Conductivity	0.293 W/m-K	2.03 BTU-in/hr-ft ² -°F	
Glass Transition Temp, Tg	55.0 °C	131 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+15 ohm-cm	1.50e+15 ohm-cm	
Dielectric Constant	6.06	6.06	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	23.0 kV/mm	585 kV/in	
Dissipation Factor	0.012	0.012	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Green	Accelerator
	Green	
	White	Base

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