

3M Scotch-Weld™ 2158 B/A Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive 2158 B/A is a gray, two-part, high strength adhesive that chemically cures at room temperature. It has good adhesion to a variety of substrates including metals, many plastics, wood and concrete. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-2158-BA-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Brookfield Viscosity	250000 - 450000 cP	250000 - 450000 cP	Base, RVF #7 sp.
	200000 - 800000 cP	200000 - 800000 cP	Base, RVF #7 sp.

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	>= 85	>= 85	

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C	29.4 µin/in-°F	
	@Temperature -50.0 - 30.0 °C	@Temperature -58.0 - 86.0 °F	
	135 µm/m-°C	75.0 µin/in-°F	
	@Temperature 70.0 - 130 °C	@Temperature 158 - 266 °F	
Thermal Conductivity	0.490 W/m-K	3.40 BTU-in/hr-ft²-°F	
Glass Transition Temp, Tg	52.0 °C	126 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+15 ohm-cm	1.40e+15 ohm-cm	
Dielectric Constant	5.6	5.6	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	38.6 kV/mm	980 kV/in	
Dissipation Factor	0.019	0.019	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Processing Properties	Metric	English	Comments
Cure Time			Time to Handling Strength

Processing Properties	480 - 720 min Metric	8.00 - 12.0 hour English	Comments
	10100 min	168 hour	Full

Descriptive Properties	Value	Comments
Appearance	Dark Gray	Accelerator
	Gray	
	White	Base

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