

3M Scotch-Weld™ DP-100 Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive DP-100 is a two-part adhesives offering fast cure and machinability. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-DP-100-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Brookfield Viscosity	8000 - 15000 cP	8000 - 15000 cP	Base, RVF #6 spindle, 20 rpm @ 27°C
	9000 - 16000 cP	9000 - 16000 cP	Accelerator, RVF #6 spindle, 20 rpm @ 27°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 85	80 - 85	ASTM D2240

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature -40.0 - 20.0 °C	@Temperature -40.0 - 68.0 °F	
	209 $\mu\text{m}/\text{m}\cdot\text{°C}$	116 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 60.0 - 120 °C	@Temperature 140 - 248 °F	
Thermal Conductivity	0.184 W/m-K	1.28 BTU-in/hr-ft ² -°F	
	@Temperature 45.0 °C	@Temperature 113 °F	
Glass Transition Temp, Tg	33.0 °C	91.4 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.50e+12 ohm-cm	3.50e+12 ohm-cm	ASTM D257
Dielectric Strength	33.9 kV/mm	860 kV/in	ASTM D257

Processing Properties	Metric	English	Comments
Cure Time	1440 - 2880 min	24.0 - 48.0 hour	

Descriptive Properties	Value	Comments
Appearance	Clear/Light Amber	

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