

3M Scotch-Weld™ DP-100NS Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive DP-100NS 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-100NS-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Brookfield Viscosity	50000 - 85000 cP	50000 - 85000 cP	Accelerator, RVF #6 spindle, 20 rpm @ 27°C
	90000 - 150000 cP	90000 - 150000 cP	Base, 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	29.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	16.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature -50.0 - 30.0 °C	@Temperature -58.0 - 86.0 °F	
	149 $\mu\text{m}/\text{m}\cdot\text{°C}$	82.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 50.0 - 110 °C	@Temperature 122 - 230 °F	
Thermal Conductivity	0.183 W/m-K	1.27 BTU-in/hr-ft ² -°F	
	@Temperature 45.0 °C	@Temperature 113 °F	
Glass Transition Temp, Tg	34.0 °C	93.2 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+14 ohm-cm	2.20e+14 ohm-cm	ASTM D257
Dielectric Strength	43.3 kV/mm	1100 kV/in	ASTM D257

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

Descriptive Properties	Value	Comments
Appearance	Translucent	

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