

3M Scotch-Weld™ DP110 Gray Epoxy Adhesive

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive DP110 Translucent and Gray are two-part epoxy adhesive which combine a fast cure with flexibility. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-DP110-Gray-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	40000 - 90000 cP	40000 - 90000 cP	Base
	40000 - 90000 cP	40000 - 90000 cP	Accelerator

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	
Elongation at Break	40 %	40 %	
Shear Strength	0.276 - 0.414 MPa	40.0 - 60.0 psi	Overlap, Neoprene Rubber/Steel
	0.552 - 0.689 MPa	80.0 - 100 psi	Overlap, SBR/Steel
	1.03 MPa	150 psi	Overlap, Abraded Aluminum, 14 days in 5% salt spray @ 35°C
	2.69 MPa	390 psi	Overlap, PVC/PVC, Rigid
	3.31 MPa	480 psi	Overlap, Acrylic/Acrylic
	3.45 MPa	500 psi	Overlap, Etched Aluminum, 14 days in 5% salt spray @ 35°C
	4.69 MPa	680 psi	Overlap, ABS/ABS Plastic
	4.69 MPa	680 psi	Overlap, PC/PC
	4.83 MPa	700 psi	Overlap, Abraded Aluminum, 3 days, 71°C, 100% RH
	8.27 MPa	1200 psi	Overlap, Etched Aluminum, 3 days, 71°C, 100% RH
8.62 MPa	1250 psi	Overlap, Abraded Aluminum, 30 days tap water @ RT	
9.65 MPa	1400 psi	Overlap, Fiber Reinforced Polyester/Fiber Reinforced Polyester	
12.1 MPa	1750 psi	Overlap, Copper/Copper	
15.9 MPa	2300 psi	Overlap, Al/Al	

Mechanical Properties	Metric	English	Comments
	15.9 MPa	2300 psi	Overlap, Etched Aluminum, 30 days tap water @ RT
	15.9 MPa	2300 psi	Overlap, Abraded Aluminum, Initial
	16.9 MPa	2450 psi	Overlap, Stainless Steel/Stainless Steel
	16.9 MPa	2450 psi	Overlap, Brass/Brash
	17.2 MPa	2500 psi	Overlap, CRS/CRS
	17.2 MPa	2500 psi	Overlap, Etched Aluminum, Initial
	17.9 MPa	2600 psi	Overlap, Galvanized Steel/Galvanized Steel
	1.72 MPa @Temperature 82.0 °C	250 psi @Temperature 180 °F	Overlap
	1.86 MPa @Temperature 71.0 °C	270 psi @Temperature 160 °F	Overlap
	18.6 MPa @Temperature -55.0 °C	2700 psi @Temperature -67.0 °F	Overlap
	24.1 MPa @Temperature 24.0 °C	3500 psi @Temperature 75.2 °F	Overlap
Peel Strength	3.51 kN/m	20.0 pli	T-Peel

Thermal Properties	Metric	English	Comments
CTE, linear	73.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -50.0 - 0.000 °C	40.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -58.0 - 32.0 °F	
	165 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature -50.0 - 110 °C	91.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature -58.0 - 230 °F	
Thermal Conductivity	0.180 W/m-K @Temperature 45.0 °C	1.25 BTU-in/hr-ft ² -°F @Temperature 113 °F	
Glass Transition Temp, Tg	16.0 °C	60.8 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.90e+10 ohm-cm	6.90e+10 ohm-cm	
Dielectric Strength	18.5 kV/mm	470 kV/in	

Electrical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Appearance		Black	
		Gray	Base
		White	Accelerator

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