

3M Scotch-Weld™ DP110 Translucent 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-Translucent-Epoxy-Adhesive.php

Physical Properties	Metric	English	Comments
Viscosity	30000 - 70000 cP	30000 - 70000 cP	Base
	30000 - 70000 cP	30000 - 70000 cP	Accelerator

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	
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
	1.72 MPa	250 psi	Overlap, Acrylic/Acrylic
	2.76 MPa	400 psi	Overlap, PVC/PVC, Rigid
	3.45 MPa	500 psi	Overlap, ABS/ABS Plastic
	3.45 MPa	500 psi	Overlap, PC/PC
	3.45 MPa	500 psi	Overlap, Etched Aluminum, 14 days in 5% salt spray @ 35°C
	4.83 MPa	700 psi	Overlap, Abraded Aluminum, 3 days, 71°C, 100% RH
	6.89 MPa	1000 psi	Overlap, Al/Al
	6.89 MPa	1000 psi	Overlap, Abraded Aluminum, Initial
	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

Mechanical Properties	Metric Pa	English	Comments
	10.3 MPa	1500 psi	Overlap, Stainless Steel/Stainless Steel
	10.3 MPa	1500 psi	Overlap, Galvanized Steel/Galvanized Steel
	10.3 MPa	1500 psi	Overlap, Copper/Copper
	10.3 MPa	1500 psi	Overlap, Brass/Brass
	15.9 MPa	2300 psi	Overlap, Etched Aluminum, 30 days tap water @ RT
	17.2 MPa	2500 psi	Overlap, Etched Aluminum, Initial
	1.38 MPa	200 psi	Overlap
	@Temperature 82.0 °C	@Temperature 180 °F	
	1.86 MPa	270 psi	Overlap
	@Temperature 71.0 °C	@Temperature 160 °F	
	17.2 MPa	2500 psi	Overlap
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	17.2 MPa	2500 psi	Overlap
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Peel Strength	3.51 kN/m	20.0 pli	T-Peel

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature -50.0 - 0.000 °C	@Temperature -58.0 - 32.0 °F	
	200 $\mu\text{m}/\text{m}\cdot\text{°C}$	111 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature -50.0 - 110 °C	@Temperature -58.0 - 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	13.0 °C	55.4 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.50e+10 ohm-cm	4.50e+10 ohm-cm	
Dielectric Strength	20.5 kV/mm	520 kV/in	

Electrical Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Appearance		Light Yellow	Accelerator
		Translucent White	Base
		Yellow Translucent	

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