

## 3M Scotch-Weld™ 2290 Epoxy Adhesive/Coating

Category : Polymer , Thermoset , Epoxy , Epoxy Adhesive

### Material Notes:

3M™ Scotch-Weld™ Epoxy Adhesive/Coating 2290 is an amber tinted thermo-setting adhesive/coating for metal to metal bonding and coating. It can be used to assemble laminated steel cores for electrical motor stator and rotors, to adhere copper foil to B-staged epoxy in the manufacture of printed circuits, and to coat, protect, and utilize coils and electronic subassemblies. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotch-Weld-2290-Epoxy-AdhesiveCoating.php](http://www.lookpolymers.com/polymer_3M-Scotch-Weld-2290-Epoxy-AdhesiveCoating.php)

Physical Properties	Metric	English	Comments
Solids Content	19.5 - 23 %	19.5 - 23 %	
Viscosity	40 - 80 cP	40 - 80 cP	

Mechanical Properties	Metric	English	Comments
Shear Strength	34.5 MPa	5000 psi	Overlap, Tap Water 30 days @ RT; ASTM D1002-72
	34.5 MPa	5000 psi	Overlap, 20% Salt Spray 30 days @ 35°C; ASTM D1002-72
	34.5 MPa	5000 psi	Overlap, 7 days at RT; ASTM D1002-72
	34.5 MPa	5000 psi	Overlap, Aromatic Fuels 7 days @ RT; ASTM D1002-72
	2.07 MPa	300 psi	Overlap; ASTM D1002
	@Temperature 150 °C	@Temperature 302 °F	
	8.27 MPa	1200 psi	Overlap; ASTM D1002
	@Temperature 120 °C	@Temperature 248 °F	
	24.1 MPa	3500 psi	Overlap; ASTM D1002
	@Temperature 82.0 °C	@Temperature 180 °F	
	34.5 MPa	5000 psi	Overlap; ASTM D1002
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	34.5 MPa	5000 psi	Overlap; ASTM D1002
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Peel Strength	1.75 kN/m	10.0 pli	T-Peel; ASTM D1876

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear</i>	262 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	146 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
	@Temperature -20.0 - 70.0 $^\circ\text{C}$	@Temperature -4.00 - 158 $^\circ\text{F}$	
	543 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	302 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 100 - 120 $^\circ\text{C}$	@Temperature 212 - 248 $^\circ\text{F}$	
Glass Transition Temp, Tg	95.0 $^\circ\text{C}$	203 $^\circ\text{F}$	
Flash Point	-14.0 $^\circ\text{C}$	6.80 $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+15 ohm-cm	1.20e+15 ohm-cm	
Dielectric Constant	5.2	5.2	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	94.5 kV/mm	2400 kV/in	
Dissipation Factor	0.011	0.011	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Appearance	Light Amber	

## Contact Songhan Plastic Technology Co.,Ltd.

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