

3M Scotch-Weld™ 3748 VO Hot Melt Adhesive

Category : Polymer , Adhesive

Material Notes:

Self-extinguishing version of 3748 and Meets UL 1410 requirements Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-3748-VO-Hot-Melt-Adhesive.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	
Viscosity	3300 cP	3300 cP	
	@Temperature 220 °C	@Temperature 428 °F	
	5000 cP	5000 cP	
	@Temperature 200 °C	@Temperature 392 °F	
	8500 cP	8500 cP	
	@Temperature 180 °C	@Temperature 356 °F	
Brookfield Viscosity	5500 cP	5500 cP	
	@Temperature 191 °C	@Temperature 375 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	26	26	ASTM D2240
Shear Strength	1.48 MPa	215 psi	FR-24 to FR-4
	1.52 MPa	220 psi	PE to PE
	1.72 MPa	250 psi	PP to PP
	1.90 MPa	275 psi	On Douglas Fir
	1.90 MPa	275 psi	Firt to Fir
Peel Strength	2.63 kN/m	15.0 pli	on canvas
	4.56 kN/m	26.0 pli	Fir, 180°
	4.73 kN/m	27.0 pli	PE, 180°
	6.14 kN/m	35.0 pli	PP, 180°
	6.66 kN/m	38.0 pli	Wire Mesh to FR-4, 180°

Thermal Properties	Metric	English	Comments
CTE, linear	-3.40 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	-1.89 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Thickness -2540 mm, Temperature $\geq -40.0\text{ }^{\circ}\text{C}$	@Thickness -100 in, Temperature $\geq -40.0\text{ }^{\circ}\text{F}$	
	15.4 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.56 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Thickness -508 mm, Temperature $\geq 25.0\text{ }^{\circ}\text{C}$	@Thickness -20.0 in, Temperature $\geq 77.0\text{ }^{\circ}\text{F}$	
Thermal Conductivity	1.92 W/m-K	13.3 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Flammability, UL94	V-0	V-0	
Ring & Ball Softening Point	152 $^{\circ}\text{C}$	306 $^{\circ}\text{F}$	ASTM E28-99

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+17 ohm-cm	6.00e+17 ohm-cm	ASTM D257
Surface Resistance	4.50e+17 ohm	4.50e+17 ohm	
Dielectric Constant	2.3	2.3	ASTM D149
	@Frequency 100 - 1.00e+8 Hz	@Frequency 100 - 1.00e+8 Hz	
Dielectric Strength	55.1 kV/mm	1400 kV/in	ASTM D149
	@Thickness 0.279 mm	@Thickness 0.0110 in	
Dissipation Factor	0.0010	0.0010	ASTM D149
	@Frequency 1000 - 1.00e+8 Hz	@Frequency 1000 - 1.00e+8 Hz	
	0.0020	0.0020	ASTM D149
	@Frequency 100 Hz	@Frequency 100 Hz	

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