

Master Bond MasterSil 707FR Flame Retardant Silicone Adhesive

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: MasterSil 707FR is a one component, high performance RTV silicone that is mainly used for its flame retardancy. It is UL listed with a flame classification for 94V-1 for thicknesses of 0.75 mm and 1.5 mm, and 94V-0 for a 3 mm thickness. It adheres well to a wide variety of substrates including glass, metals and many plastics. The rapidity of the cure depends on the thickness of the layer and the humidity; the thicker the layer the slower the cure. It is soft with good elasticity and flexibility, and outstanding electrical insulation properties. Most importantly, it is non-corrosive, fast setting, and has a paste like consistency. MasterSil 707FR is serviceable over the broad temperature range of -45°C to +200°C, as per UL specifications, and is gray in color. Key Features UL listed for 94V-1 and 94V-0 Very fast cure Non-corrosive Good adhesion properties Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MasterSil-707FR-Flame-Retardant-Silicone-Adhesive.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	35 - 45	35 - 45	
Tensile Strength at Break	2.76 - 3.45 MPa	400 - 500 psi	
Elongation at Break	300 - 400 %	300 - 400 %	
Shear Strength	1.03 - 1.38 MPa	150 - 200 psi	Tensile, Al to Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 °C	350 °F	
Minimum Service Temperature, Air	-45.0 °C	-49.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+14 ohm-cm	>= 1.00e+14 ohm-cm	
Dielectric Constant	3.2	3.2	
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	
Dielectric Strength	23.6 kV/mm	600 kV/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Dissipation Factor	0.010	0.010	

Electrical Properties	@Frequency 60.0 Hz, Metric Temperature 25.0 °C	@Frequency 60.0 Hz, English Temperature 77.0 °F	Comments
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Processing Properties	Metric	English	Comments
Cure Time	5.00 - 10.0 min	0.0833 - 0.167 hour	Tack-free time
Shelf Life	6.00 Month @Temperature 23.9 °C	6.00 Month @Temperature 75.0 °F	in original unopened containers

Descriptive Properties	Value	Comments
Appearance	gray	

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