

Master Bond MasterSil 709 One Part Silicone Meets MIL Spec

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: MasterSil 709 is an easy to use, one component, high performance silicone elastomer compound for bonding, sealing, coating and formed in place gaskets. This unique product meets the MIL-A-46146 specification. It is non-corrosive, fast setting and flowable. It can be widely used for many applications, particularly in aerospace and electronics. MasterSil 709 bonds well to a wide variety of substrates. The rapidity of the cure depends on the thickness of the layer and the humidity; the thicker the layer the slower the cure. MasterSil 709 is serviceable over the broad temperature range of -75°F to +400°F. MasterSil 709 has a moderate viscosity with good flow properties that can also be used as a conformal coating for electronics. Its color is translucent. Key Features Meets MIL-A-46146 Fast, room temperature curing Moderate viscosity with good flow properties Non-corrosive Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MasterSil-709-One-Part-Silicone-Meets-MIL-Spec.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	
Viscosity	30000 - 40000 cP	30000 - 40000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	25 - 35	25 - 35	
Tensile Strength at Break	2.76 - 3.45 MPa	400 - 500 psi	
Elongation at Break	300 - 400 %	300 - 400 %	
Shear Strength	0.689 - 1.38 MPa	100 - 200 psi	Tensile, Al to Al

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-59.4 °C	-75.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Dielectric Constant	2.5 @Frequency 60.0 Hz, Temperature 25.0 °C	2.5 @Frequency 60.0 Hz, Temperature 77.0 °F	
Dielectric Strength	19.7 kV/mm @Thickness 3.17 mm	500 kV/in @Thickness 0.125 in	

Electrical Properties Dissipation Factor	0.0010 Metric	0.0010 English	Comments
	@Frequency 60.0 Hz, Temperature 25.0 °C	@Frequency 60.0 Hz, Temperature 77.0 °F	

Processing Properties	Metric	English	Comments
Cure Time	15.0 - 20.0 min	0.250 - 0.333 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	Translucent	

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