

Master Bond MasterSil 705C Non-Corrosive Silicone with Carbon Filler

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: Master Bond MasterSil 705C is an electrically conductive, one component, non-corrosive, carbon filled silicone for bonding, sealing and coating. This black colored paste like system cures readily at ambient temperatures upon exposure to humidity; the higher the level, the faster the rate of cure. MasterSil 705C has good electrical conductivity and is used primarily in applications involving static dissipation or EMI-RFI shielding. MasterSil 705C is also used when an electrically conductive system that is non-metallic is required. It retains typical silicone type flexibility and high temperature resistance. It is serviceable over the wide temperature range of -75°F to +400°F. MasterSil 705C will bond well to a wide variety of substrates including other silicone materials, particularly gasket materials. It is most effective when applied in thin sections. Another highly desirable property is a very fast tack free time of 3-7 minutes depending upon humidity. Key Features Carbon filled Electrically conductive Room temperature curing Serviceable from -75°F to +400°F Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MasterSil-705C-Non-Corrosive-Silicone-with-Carbon-Filler.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	40	40	
Tensile Strength at Break	1.72 MPa	250 psi	
Elongation at Break	230 %	230 %	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	400 °F	
Minimum Service Temperature, Air	-51.1 °C	-60.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	50 - 100 ohm-cm	50 - 100 ohm-cm	
Dielectric Constant	4.2 @Frequency 50.0 Hz, Temperature 25.0 °C	4.2 @Frequency 50.0 Hz, Temperature 77.0 °F	
Dielectric Strength	33.5 kV/mm	850 kV/in	

Processing Properties	Metric	English	Comments
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Cure Time Processing Properties	3.00 - 7.00 min Metric	0.0500 - 0.117 hour English	Tack-free time Comments
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	black	

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