

Master Bond MasterSil 705S Silver Filled, Non-Corrosive Silicone

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: Master Bond MasterSil 705S is an easy-to-use, one component, non-corrosive, electrically conductive, silver filled, silicone for bonding and sealing. The material is a gray colored paste. It cures readily at ambient temperatures when exposed to atmospheric moisture. MasterSil 705S features exceptionally low volume resistivity and is ideal for many electronic applications, especially those involving printed circuit boards. MasterSil 705S bonds well to a variety of substrates including metals, composites, many plastics and rubbers. It should be noted that it even adheres well to other silicone materials, a feature that enables it to be used with most gasketing materials. Its most outstanding physical properties are its high temperature resistance and flexibility which allows it to withstand rigorous thermal cycling along with thermal shocks. It is serviceable over the wide temperature range of -60°F to +400°F. Finally, MasterSil 705S can also be used in EMI-RFI shielding applications. MasterSil 705S is most effective as an adhesive or sealant even when applied in thin sections. MasterSil 705S has wide applicability in electronic and electrical applications where low resistance combined with flexibility and high temperature resistance is desirable. Key Features Silver Filled, electrically conductive Very low resistance Room temperature curing High temperature resistant Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MasterSil-705S-Silver-Filled-Non-Corrosive-Silicone.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.85 g/cc	2.85 g/cc	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	
Tensile Strength at Break	1.93 MPa	280 psi	
Elongation at Break	50 %	50 %	

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	<= 0.01 ohm-cm	<= 0.01 ohm-cm	

Processing Properties	Metric	English	Comments
Cure Time	15.0 - 20.0 min	0.250 - 0.333 hour	Tack-free time
Shelf Life	3.00 - 6.00 Month	3.00 - 6.00 Month	in original unopened containers,

Processing Properties	@Temperature 23.9 °C Metric	@Temperature 75.0 °F English	refrigeration preferred Comments
Descriptive Properties	Value		Comments
Appearance	gray		

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