

Master Bond MB600SCN Aqueous Based Electrically Conductive Sodium Silicate Coating

Category : Ceramic , Other Engineering Material , Ceramic/Metallic Coating

Material Notes:

Master Bond MB600SCN is an aqueous based, sodium silicate system with a silver coated nickel filler. It is intended for use in applications where very good shielding effectiveness is required and cost considerations might be more pronounced. Electromagnetic interference (EMI) and radio frequency interference (RFI) are very important factors in electronic applications. The energy emitted from various sources such as radios, appliances, etc. can interfere with other electronic devices that are made from plastics. Conductive coatings are often applied to the housings in order to protect the devices from these types of interferences. Key Features Very good shielding effectiveness Temperature resistance up to +700°F Easy application Silver coated nickel filler Cost effective Information provided by MasterBond®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Master-Bond-MB600SCN-Aqueous-Based-Electrically-Conductive-Sodium-Silicate-Coating.php

Physical Properties	Metric	English	Comments
Specific Gravity	3.00 g/cc	3.00 g/cc	
Solids Content	90 %	90 %	by weight

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	371 °C	700 °F	
Minimum Service Temperature, Air	-17.8 °C	0.000 °F	

Electrical Properties	Metric	English	Comments
Surface Resistance	<= 0.001 ohm	<= 0.001 ohm	
Shielding Effectiveness	40 - 50 dB	40 - 50 dB	
	@Frequency 7.00e+9 - 1.80e+10 Hz	@Frequency 7.00e+9 - 1.80e+10 Hz	
	40 - 55 dB	40 - 55 dB	
	@Frequency 2.00e+9 - 7.00e+9 Hz	@Frequency 2.00e+9 - 7.00e+9 Hz	
	40 - 75 dB	40 - 75 dB	
	@Frequency 1.00e+9 - 2.00e+9 Hz	@Frequency 1.00e+9 - 2.00e+9 Hz	

Processing Properties	Metric	English	Comments
Cure Time	60.0 - 120 min	1.00 - 2.00 hour	
	@Temperature >=79.4	@Temperature >=175	

Processing Properties	^{°C} Metric	^{°F} English	Comments
	1440 - 2880 min	24.0 - 48.0 hour	
	@Temperature 23.9 °C	@Temperature 75.0 °F	
Shelf Life	6.00 Month	6.00 Month	in original unopened containers
	@Temperature 23.9 °C	@Temperature 75.0 °F	

Descriptive Properties	Value	Comments
Color	light silver gray	
Viscosity	flowable thixotropic	

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