

Parker Chomerics CHO-SHIELD® 2044 Nickel-Filled Acrylic Coating for EMI Shielding

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

Description: CHO-SHIELD® 2044 is an electrically conductive, one-component nickel-filled acrylic coating that is especially formulated for application on plastics to provide modest EMI shielding. CHO-SHIELD® 2044 is ideal for use on electronic enclosures and assemblies. The electrical conductivity of the durable, nickel-composition paint allows for simple, standard application using conventional equipment with minimal dry-time and handling. CHO-SHIELD® 2044 is ideal for use on electronic enclosures and assemblies where abrasion resistance and coating durability are important. This durable, conductive coating derives its hardness from its nickel composition and may provide limited amounts of H-field shielding. Given its relatively low conductivity as compared to other metal fillers, the nickel provides exceptional shielding for enclosures where both external RF fields must be excluded, and internal radiated emission must be attenuated. Applications: Moderate EMI shielding, Anti-static protection, Surface grounding, Coating of ABS, PC/ABS, and many other types of plastic enclosures. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SHIELD-2044-Nickel-Filled-Acrylic-Coating-for-EMI-Shielding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 - 1.40 g/cc	1.00 - 1.40 g/cc	ASTM D792
Solids Content	42 %	42 %	
Volatile Organic Compounds (VOC) Content	755 g/l	755 g/l	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	85.0 °C	185 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	<= 1.0 ohm @Thickness 0.0500 mm	<= 1.0 ohm @Thickness 0.00197 in	
Shielding Effectiveness	57 dB @Frequency 1.00e+8 Hz	57 dB @Frequency 1.00e+8 Hz	
	>= 60 dB @Frequency 10000 - 8.00e+7 Hz	>= 60 dB @Frequency 10000 - 8.00e+7 Hz	
	63 dB	63 dB	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+9 Hz	@Frequency 1.00e+9 Hz	
	70 dB	70 dB	
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	

Processing Properties	Metric	English	Comments
Dry Time	0.250 hour @Temperature 24.0 °C	0.250 hour @Temperature 75.2 °F	then 45 minutes at 65°C
	0.500 hour @Temperature 24.0 °C	0.500 hour @Temperature 75.2 °F	Tack Free
	24.0 hour @Temperature 24.0 °C	24.0 hour @Temperature 75.2 °F	Full Dry
Shelf Life	9.00 Month	9.00 Month	

Descriptive Properties	Value	Comments
Adhesion	5B	ASTM D 3359
Coverage	122 sq ft/gal	at 0.002 in
Filler	Nickel	
Polymer	Acrylic	
Suggested Spraying Viscosity #2 Zahn Cup	15 - 25 sec	

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