

Parker Chomerics CHO-SHIELD® 610 A/B Epoxy Conductive Coating

Category : Polymer , Adhesive , Thermoset , Epoxy , Filled/Reinforced Thermoset

Material Notes:

Description: CHO-SHIELD® 610 A/B is a highly conductive, two-component silver-plated-copper filled epoxy coating for application to non-conductive plastic substrates, particularly those subject to hostile environmental conditions of abrasion, temperature extremes, high humidity, and salt fog corrosion. It dries to the touch in less than one hour with best performance attained by using one of two accelerated cure cycles. Information provided by Chomerics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Parker-Chomerics-CHO-SHIELD-610-AB-Epoxy-Conductive-Coating.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 - 1.75 g/cc	1.45 - 1.75 g/cc	
Volatile Organic Compounds (VOC) Content	888 g/l	888 g/l	
Thickness	50.0 microns	1.97 mil	Recommended

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-65.0 °C	-85.0 °F	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	<= 0.15 ohm	<= 0.15 ohm	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 121 °C	@Temperature 250 °F	
	120 min	2.00 hour	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	240 min	4.00 hour	
	@Temperature 79.0 °C	@Temperature 174 °F	
	10100 min	168 hour	
	@Temperature 24.0 °C	@Temperature 75.2 °F	
Pot Life	480 min	480 min	
Shelf Life	9.00 Month	9.00 Month	

Descriptive Properties	Value	Comments
Binder	Epoxy	
Consistency	Medium Fluid	
Coverage	453/gal	@ 0.001 in thick
	718 sq. ft ² /gal/mil thickness	
Cross Hatch Adhesion	5B	ASTM D3359-78 Method B)
Electrical Conductivity	150 mOhm/sq	@ 2 mils thickness
Filler	Ag/Cu	
High Temperature Test	129	240 hrs. @ 85°C, Initial Resistance
	151	240 hrs. @ 85°C, Final Resistance
Humidity Test	125	240 hrs. @ 65°C and 85-95% RH, Initial Resistance
	125	240 hrs. @ 65°C and 85-95% RH, Initial Resistance
Low Temperature Test	133	240 hrs. @ -40°C, Initial Resistance
	137	240 hrs. @ -40°C, Final Resistance
Mix Ratio	100:28	
Salt Fog Test	119	96 hrs. Initial Resistance; ASTM B-117
	196	96 hrs. Final Resistance; ASTM B-117
Suggested Spraying Viscosity #2 Zahn Cup	19 - 27 sec	
Work Life	8 hrs.	

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