

Lord Adhesives Aeroglaze® Z307 Absorptive Conductive Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

Aeroglaze® Z307 black absorptive conductive polyurethane coating is primarily for application to substrates used on spacecraft. These applications include those where coatings must exhibit low outgassing characteristics while providing static dissipating and high thermal absorptivity properties. In addition, the mechanical properties required for rigorous durations in space are an integral part of the Aeroglaze Z307 coating make-up. Aeroglaze Z307 coating shows excellent performance on rigid or flexible substrates. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Aeroglaze-Z307-Absorptive-Conductive-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in ³	ASTM D1475-85
Solids Content	18 %	18 %	by volume
	22 %	22 %	by weight
Volatile Organic Compounds (VOC) Content	728 g/l	728 g/l	ASTM D3960-89
Brookfield Viscosity	300 cP	300 cP	ASTM D2196-86; LVT
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Outgassing - Total Mass Loss	1.06 %	1.06 %	40 day cure at room temperature

Thermal Properties	Metric	English	Comments
Flash Point	19.3 °C	66.7 °F	Setaflash, Closed Cup; ASTM D3278-82

Optical Properties	Metric	English	Comments
Gloss	<= 15 %	<= 15 %	60°
Emissivity (0-1)	0.89	0.89	ASTM E408-71

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	100 ohm - 1e+05	100 ohm - 1e+05	ohms/in ² @ .75-1.5 mils

Processing Properties	Metric	English	Comments
Cure Time	120 - 180 min	2.00 - 3.00 hour	Tack Free; 50% relative humidity
	@Temperature 25.0		

Processing Properties	°C Metric	@Temperature 77.0 °F English	Comments
	720 min	12.0 hour	Permit Handling
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	2160 - 2880 min	36.0 - 48.0 hour	Permit Normal Usage
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Flat Black	
Coating Film Dry Weight (gm/ft ² /mil)	2.69	
Solar Absorption	0.97	Gier-Dunkle Integrating Sphere
Theoretical Coverage (ft ² /gallon/mil)	284	

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