

Humiseal 1A33LSE Urethane Conformal Coating

Category : Polymer , Adhesive , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Adhesive

Material Notes:

Humiseal 1A33LSE Urethane Conformal Coating High moisture resistance Excellent dielectrical properties Excellent chemical resistance Repairable UL Approval Pending MIL-I-46058C Approval Pending Passes thermal shock test (MIL-I-46058C) Flammability (self extinguishing) (ASTM D635) Excellent resistance to solvents (IPC CC 830) Recommended Stripper: 1063 Recommended Thinner: 801 Cure Type: Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Humiseal-1A33LSE-Urethane-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Density	0.899 g/cc	0.0325 lb/in ³	ASTM D1475
Solids Content	50 %	50 %	Fed Std 141 Method 4044
Volatile Organic Compounds (VOC) Content	<= 225 g/l	<= 225 g/l	
Viscosity	200 cP	200 cP	Fed Std Method 4287

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.02699 GPa	3.915 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	170 Âµm/m-Â°C @Temperature 20.0 Â°C	94.4 Âµin/in-Â°F @Temperature 68.0 Â°F	
Maximum Service Temperature, Air	125 Â°C	257 Â°F	
Minimum Service Temperature, Air	-65.0 Â°C	-85.0 Â°F	
Glass Transition Temp, Tg	56.0 Â°C	133 Â°F	
Flash Point	15.6 Â°C	60.0 Â°F	ASTM D56

Electrical Properties	Metric	English	Comments
Surface Resistance	1.60e+10 ohm	1.60e+10 ohm	Moisture Resistance; MIL-I-46058C
Insulation Resistance	2.00e+14 ohm	2.00e+14 ohm	Insulation Resistance; MIL-I-46058C
Dielectric Constant	3.6	3.6	ASTM D1 50 65T
Dielectric Breakdown	>= 1500 V	>= 1500 V	Dielectric Withstand; MIL-I-46058C

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	20.0 min	0.333 hour	Dry Time to Handling; Fed Std 141 4061
	10800 - 43200 min	180 - 720 hour	
	1200 min	20.0 hour	
	@Temperature 190 Â°C	@Temperature 374 Â°F	
	1800 min	30.0 hour	
	@Temperature 170 Â°C	@Temperature 338 Â°F	
Shelf Life	12.0 Month	12.0 Month	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Descriptive Properties	Value	Comments
Coverage	375 ftÂ²/gal	

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