

Humiseal 1A20LSE Urethane Conformal Coating

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

Material Notes:

Humiseal 1A20LSE 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: 1071 Recommended Thinner: 801 Cure Type: Room Temp or Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Humiseal-1A20LSE-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	100 cP	100 cP	Fed Std Method 4287

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.089590 GPa	12.994 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	510 $\mu\text{m/m-}^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	283 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	
Maximum Service Temperature, Air	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
Minimum Service Temperature, Air	-65.0 $^\circ\text{C}$	-85.0 $^\circ\text{F}$	
Glass Transition Temp, Tg	71.0 $^\circ\text{C}$	160 $^\circ\text{F}$	
Flash Point	15.6 $^\circ\text{C}$	60.0 $^\circ\text{F}$	ASTM D56

Electrical Properties	Metric	English	Comments
Surface Resistance	4.80e+10 ohm	4.80e+10 ohm	Moisture Resistance; MIL-I-46058C
Insulation Resistance	3.00e+14 ohm	3.00e+14 ohm	Insulation Resistance; MIL-I-46058C
Dielectric Constant	3.5	3.5	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
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Cure Time	20.0 min	0.333 hour	Dry Time to Handling; Fed Std 141 4061
	30.0 min	0.500 hour	
	@Temperature 170 Å°C	@Temperature 338 Å°F	
	>= 1440 min	>= 24.0 hour	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Descriptive Properties	Value	Comments
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Coverage	375 ftÅ²/gal	
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