

Humiseal 1B12 Acrylic Conformal Coating

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

Material Notes:

Humiseal 1B12 Acrylic Conformal Coating High moisture resistance Excellent dielectrical properties Selective chemical resistance Excellent repairability Passes thermal shock test (MIL-I-46058C) Flammability (self extinguishing) (ASTM D635) Poor resistance to solvents (IPC CC 830) Recommended Stripper: 1080 Recommended Thinner: 503/521 Cure Type: Room Temp or Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Humiseal-1B12-Acrylic-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Density	0.875 g/cc	0.0316 lb/in ³	ASTM D1475
Solids Content	20 %	20 %	Fed Std 141 Method 4044
Volatile Organic Compounds (VOC) Content	701 g/l	701 g/l	
Viscosity	40 cP	40 cP	Fed Std Method 4287

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.06744 GPa	9.782 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	56.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	125 $\text{Å}^\circ\text{C}$	257 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-65.0 $\text{Å}^\circ\text{C}$	-85.0 $\text{Å}^\circ\text{F}$	
Glass Transition Temp, Tg	32.0 $\text{Å}^\circ\text{C}$	89.6 $\text{Å}^\circ\text{F}$	
Flash Point	-1.11 $\text{Å}^\circ\text{C}$	30.0 $\text{Å}^\circ\text{F}$	ASTM D56

Electrical Properties	Metric	English	Comments
Surface Resistance	3.00e+10 ohm	3.00e+10 ohm	Moisture Resistance; MIL-I-46058C
Insulation Resistance	2.50e+14 ohm	2.50e+14 ohm	Insulation Resistance; MIL-I-46058C
Dielectric Constant	2.8	2.8	ASTM D1 50 65T
Dielectric Breakdown	≥ 1500 V	≥ 1500 V	Dielectric Withstand; MIL-I-46058C
Dissipation Factor	0.010	0.010	ASTM D1 50 65T

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	10.0 min	0.167 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	12.0 Month	12.0 Month	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Descriptive Properties	Value	Comments
Coverage	330 ftÅ²/gal	

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