

## Humiseal 1A27 Urethane Conformal Coating

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

### Material Notes:

Humiseal 1A27 Urethane Conformal Coating High moisture resistance Excellent dielectrical properties Excellent chemical resistance Repairable UL Approved Passes thermal shock test (MIL-I-46058C) Flammability (self extinguishing) (ASTM D635) Excellent resistance to solvents (IPC CC 830) Recommended Stripper: 1063 Recommended Thinner: 521 Cure Type: Heat

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Humiseal-1A27-Urethane-Conformal-Coating.php](http://www.lookpolymers.com/polymer_Humiseal-1A27-Urethane-Conformal-Coating.php)

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in <sup>3</sup>	ASTM D1475
Solids Content	50 %	50 %	Fed Std 141 Method 4044
Volatile Organic Compounds (VOC) Content	480 g/l	480 g/l	
Viscosity	5000 cP	5000 cP	Fed Std Method 4287

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.02416 GPa	3.504 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	170 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	94.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @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	56.0 $\text{Å}^\circ\text{C}$	133 $\text{Å}^\circ\text{F}$	
Flash Point	26.7 $\text{Å}^\circ\text{C}$	80.0 $\text{Å}^\circ\text{F}$	ASTM D56

Electrical Properties	Metric	English	Comments
Surface Resistance	1.20e+10 ohm	1.20e+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	$\geq 1500$ V	$\geq 1500$ V	Dielectric Withstand; MIL-I-46058C
Dissipation Factor	0.020	0.020	ASTM D1 50 65T

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	Dry Time to Handling; Fed Std 141 4061
	10800 - 43200 min	180 - 720 hour	
	1200 min	20.0 hour	
	@Temperature 190 Å°C	@Temperature 374 Å°F	
	1800 min	30.0 hour	
	@Temperature 170 Å°C	@Temperature 338 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	450 ftÅ²/gal	

## Contact Songhan Plastic Technology Co.,Ltd.

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