

Humiseal 1C49 Silicone Conformal Coating

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

Humiseal 1C49 Silicone Conformal Coating High temperature resistance Good dielectrical properties Good moisture resistance Repairable UL Approved MIL-I-46058C Approved Passes thermal shock test (MIL-I-46058C) Flammability (self extinguishing) (ASTM D635) Good resistance to solvents (IPC CC 830) Recommended Stripper: 1090 Cure Type: Room Temp or Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Humiseal-1C49-Silicone-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Density	0.971 g/cc	0.0351 lb/in ³	ASTM D1475
Solids Content	100 %	100 %	Fed Std 141 Method 4044
Volatile Organic Compounds (VOC) Content	0.00 g/l	0.00 g/l	
Viscosity	5000 cP	5000 cP	Fed Std Method 4287

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.00111 GPa	0.161 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	160 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	88.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	
Maximum Service Temperature, Air	200 $\text{Å}^\circ\text{C}$	392 $\text{Å}^\circ\text{F}$	
Minimum Service Temperature, Air	-65.0 $\text{Å}^\circ\text{C}$	-85.0 $\text{Å}^\circ\text{F}$	
Glass Transition Temp, Tg	$\geq 200 \text{ Å}^\circ\text{C}$	$\geq 392 \text{ Å}^\circ\text{F}$	
Flash Point	102 $\text{Å}^\circ\text{C}$	215 $\text{Å}^\circ\text{F}$	ASTM D56

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	Moisture Resistance; MIL-I-46058C
Insulation Resistance	5.00e+14 ohm	5.00e+14 ohm	Insulation Resistance; MIL-I-46058C
Dielectric Constant	2.5	2.5	ASTM D1 50 65T
Dielectric Breakdown	$\geq 1500 \text{ V}$	$\geq 1500 \text{ V}$	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 - 60.0 min	0.167 - 1.00 hour	Dry Time to Handling; Fed Std 141 4061
	20.0 min	0.333 hour	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	>= 1440 min	>= 24.0 hour	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Shelf Life	6.00 Month	6.00 Month	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Descriptive Properties	Value	Comments
Coverage	250 ftÂ²/gal	

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