

Humiseal 1C51 Silicone Conformal Coating

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

Material Notes:

Humiseal 1C51 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: Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Humiseal-1C51-Silicone-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 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	575 cP	575 cP	Fed Std Method 4287

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.00353 GPa	0.512 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	150 Âµm/m-Â°C @Temperature 20.0 Â°C	83.3 Âµin/in-Â°F @Temperature 68.0 Â°F	
Maximum Service Temperature, Air	200 Â°C	392 Â°F	
Minimum Service Temperature, Air	-65.0 Â°C	-85.0 Â°F	
Glass Transition Temp, Tg	>= 200 Â°C	>= 392 Â°F	
Flash Point	121 Â°C	250 Â°F	ASTM D56

Electrical Properties	Metric	English	Comments
Surface Resistance	8.00e+10 ohm	8.00e+10 ohm	Moisture Resistance; MIL-I-46058C
Insulation Resistance	5.00e+14 ohm	5.00e+14 ohm	Insulation Resistance; MIL-I-46058C
Dielectric Constant	2.4	2.4	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	Optimum properties
	@Temperature 105 Â°C	@Temperature 221 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	750 ftÂ²/gal	

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