

Aptek 7503LM-PMF UV Urethane Conformal Coating

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

Material Notes:

UV-cured, low modulus, shadow cures under components. Excellent adhesion without primer. Repairable. Qualified to MIL-I-46058C, types UR and AR. Castable version – UVIKOTE 7504 LM-PMF. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-7503LM-PMF-UV-Urethane-Conformal-Coating.php

Physical Properties	Metric	English	Comments
Density	0.890 g/cc	0.0322 lb/in ³	ASTM D1475
Viscosity	40 cP	40 cP	ASTM D1824
Outgassing - Total Mass Loss	0.80 %	0.80 %	Cured property; at 10E-6 torr; ASTM E595
Collected Volatile Condensable Material	0.020 %	0.020 %	Cured property; at 10E-6 torr; ASTM E595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	Cured property; ASTM D2240
Modulus of Elasticity	0.00483 GPa	0.700 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	82.0 $\mu\text{m/m-}^{\circ}\text{C}$	45.6 $\mu\text{in/in-}^{\circ}\text{F}$	Cured property; alpha 1; ASTM E831-86
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
	222 $\mu\text{m/m-}^{\circ}\text{C}$	123 $\mu\text{in/in-}^{\circ}\text{F}$	Cured property; alpha 2; ASTM E831-86
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Glass Transition Temp, Tg	-65.0 $^{\circ}\text{C}$	-85.0 $^{\circ}\text{F}$	Cured property; ASTM E831-86
Flash Point	≥ 100 $^{\circ}\text{C}$	≥ 212 $^{\circ}\text{F}$	TCC

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+14 ohm-cm	4.00e+14 ohm-cm	Cured property; ASTM D257
Insulation Resistance	1.00e+14 ohm	1.00e+14 ohm	MIL-I-46058C
Dielectric Constant	3.2	3.2	Cured property; ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	≥ 59.1 kV/mm	≥ 1500 kV/in	

Dielectric Strength Electrical Properties	Metric @ Thickness 0.0762 mm	English @ Thickness 0.00300 in	Cured: ASTM D149 Comments
Dissipation Factor	0.030 @Frequency 1000 Hz	0.030 @Frequency 1000 Hz	Cured property; ASTM D150

Descriptive Properties	Value	Comments
Color	Clear Yellow/Amber	

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