

Aptek 2214-A/B Low modulus urethane ESD coating/adhesive

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

Material Notes:

Space Grade, Low modulus urethane ESD coating/adhesive APTEK is a carbon-filled, thixotropic, two component, electrically conductive, flexible urethane coating/adhesive designed to dissipate an electrostatic charge. This low-outgassing system provides a combination of high flexibility and good tensile strength/elongation characteristics. Capable of full cure at RT for application where heat cure is not desired or possible; Exceeds NASA outgassing requirements for space applications; Non-TDI based for safety; Excellent version resistance for good physical stability under high heat and humidity environments; Tg below -60°C for excellent low temperature cycling, storage and performance; Excellent substrate adhesion; superior to silicones; Available in pre-measured kits to minimize handling APTEK 2214A is a black carbon-filled polyol resin. APTEK 2214B is a pale yellow organic isocyanate. Information provided by Aptek Laboratories, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aptek-2214-AB-Low-modulus-urethane-ESD-coatingadhesive.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	A Component; ASTM D1475
	1.22 g/cc	0.0441 lb/in ³	B Component; ASTM D1475
Viscosity	40 cP	40 cP	B Component; ASTM D1824
Outgassing - Total Mass Loss	0.59 %	0.59 %	Cured property; at 10E-6 torr; ASTM E-595
Collected Volatile Condensable Material	0.040 %	0.040 %	Cured property; at 10E-6 torr; ASTM E595

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	Cured property; ASTM D2240
Tensile Strength, Ultimate	3.10 MPa	450 psi	Cured property; ASTM D412
Elongation at Break	300 %	300 %	Cured property; ASTM D412

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	<= -60.0 °C	<= -76.0 °F	Cured property; Perkin Elmer TS-2
Flash Point	>= 10.0 °C	>= 50.0 °F	A Component; ASTM D92
	>= 200 °C	>= 392 °F	B Component; ASTM D92

Electrical Properties	Metric	English	Comments
Surface Resistance	3.50e+6 ohm	3.50e+6 ohm	Cured property; ETS 860B

Processing Properties	Metric	English	Comments
Processing Temperature	25.0 °C	77.0 °F	Cure 168 hrs

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