

Lubrizol STAT-RITE® E-1140 Ester-Type Static Dissipative Polymer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP

Material Notes:

Description: Stat-Rite® E-1140 is a static dissipative thermoplastic polyurethane (TPU) alloy. Stat-Rite E-1140 utilizes the patented Stat-Rite inherently dissipative polymer (IDP) alloy system to provide clean, permanent ESD protection. Stat-Rite alloys retain uniform static dissipation properties even when injection molded or extruded.
Features: Permanently static dissipative Does not require humidity Ultra-clean: low off-gassing, low ionics See-through clarity No particulates
Applications: Cleanroom soft walls, windows and doors Vacuum tubing Work surface mats Available in Americas, Europe, Middle East, Africa, India and Asia
 Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-STAT-RITE-E-1140-Ester-Type-Static-Dissipative-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D412
Elongation at Break	670 %	670 %	ASTM D412
100% Modulus	0.00510 GPa	0.740 ksi	ASTM D412
300% Modulus	0.00800 GPa	1.16 ksi	ASTM D412
Tear Strength	65.0 kN/m	371 pli	ASTM D646

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+10 ohm-cm	2.00e+10 ohm-cm	ASTM D257
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	ASTM D257
Surface Resistivity per Square	1.10e+11 ohm	1.10e+11 ohm	ASTM D257
Static Decay	0.90 sec	0.90 sec	12% RH (+5000 V to 50 V); FTMS-101C
	0.90 sec	0.90 sec	12% RH (-5000 V to -50 V); FTMS-101C

Processing Properties	Metric	English	Comments
Drying Temperature	105 °C	221 °F	dehumidifying hopper
Dry Time	2.00 - 3.00 hour	2.00 - 3.00 hour	

Descriptive Properties	Value	Comments
Color	Transparent	

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