

Lubrizol STAT-RITE® S-1100 Static Dissipative TPU

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

Material Notes:

Description: Stat-Rite® S1100 is a static dissipative TPU alloy. Stat-Rite S-1100 utilizes the patented Stat-Rite inherently dissipative polymer (IDP) alloy system to provide clean, permanent ESD protection. Stat-Rite® IDP alloys provide consistent static dissipation even when extruded, injection molded or thermoformed into components. **Features:** Permanent static dissipativeHumidity insensitiveUltra-clean: low off-gassing, low ionic contaminationColorable**Durable:** Can be used for years and years**Applications:** ESD and Cleanroom TubingESD and Cleanroom HoseCleanroom CurtainsConveyor ESD Wear Strip, RollersESD and Cleanroom FilmAvailable 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-S-1100-Static-Dissipative-TPU.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	90	90	ASTM D2240
Hardness, Shore D	47	47	ASTM D2240
Tensile Strength at Break	26.0 MPa	3770 psi	ASTM D412
Elongation at Break	450 %	450 %	ASTM D412
100% Modulus	0.00800 GPa	1.16 ksi	ASTM D412
300% Modulus	0.0150 GPa	2.18 ksi	ASTM D412

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+9 ohm-cm	5.00e+9 ohm-cm	ASTM D257
Surface Resistance	5.00e+8 ohm	5.00e+8 ohm	12% RH; ESD S11.11
Surface Resistivity per Square	5.00e+9 ohm	5.00e+9 ohm	50%; ASTM D257
Static Decay	0.010 sec	0.010 sec	12% RH (+5000 V to 50 V); FTMS-101C
	0.010 sec	0.010 sec	12% RH (-5000 V to -50 V); FTMS-101C
	0.10 sec	0.10 sec	Charged Plate Monitor, 50% RH (+1000 V to 100 V)

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

Descriptive Properties	Value	Comments
Color	Light Blue, Transparent	

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