

Lubrizol STAT-RITE® X-5091 Ether-Type Static Dissipative Polymer

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

Material Notes:

Description: Inherently dissipative, this patented technology delivers surface resistivity in the range of 10E8 to 10E10 O/square. Stat-Rite® IDP Polymers forms a molecular-scale, interpenetrating polymer network which carries charge. The polymeric charge carriers are permanent over time even through customer processing in injection molding or extrusion. The fundamental Estane® TPU backbone dominates in property performance. Stat-Rite® IDP (Inherently Dissipative Polymer) is a homogeneous polymer which lends itself to consistent voltage decay throughout the matrix of a finished product. Conversely alternative technologies including the use of fillers or additives can off-gas, migrate, or slough-off causing contamination at a minimum and slow or inconsistent ESD protection. Stat-Rite® IDP Elastomer Alloys are based upon TPU providing the ultimate mechanical durability, low temperature flexibility and permanent ESD protection. Major Benefits of Stat-Rite® IDP Elastomer Alloys: Permanent static dissipation Ultra-clean Low off-gassing; low ionics Clarity No particulates TPU performance Applications: Clean room soft walls, windows, and doors Materials handling hose and tubing Vacuum hose and tubing Work surface mats Specific Notes for this Material: Newer higher electrostatic dissipation (ESD) protection, permanent ESD without carbon or anti-stats Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-STAT-RITE-X-5091-Ether-Type-Static-Dissipative-Polymer.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
Tensile Strength, Ultimate	26.2 MPa	3800 psi	ASTM D412/D638
Elongation at Break	450 %	450 %	ASTM D412/D638

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+9 ohm-cm	5.00e+9 ohm-cm	ASTM D257
Surface Resistivity per Square	5.00e+9 ohm	5.00e+9 ohm	ASTM D257

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