

Lubrizol Stat-Rite® S-250 Static Control Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Stat-Rite® S-250 is a static dissipative Polypropylene alloy. Stat-Rite S-250 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: Permanently static dissipative Humidity insensitive Ultra-Clean: low off-gassing, low ionic contamination Colorable Durable: Can be used repeatedly. Applications: Semiconductor handling Medical device packaging Electronic component handling Disk packaging Cleanroom supplies Available in Americas, Europe, Middle East, Africa, India and Asia Data provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Stat-Rite-S-250-Static-Control-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ASTM D792
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.9 MPa	3900 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Tensile Modulus	1.28 GPa	185 ksi	ASTM D638
Flexural Modulus	1.28 GPa	185 ksi	ASTM D790-90
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256-92

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+10 ohm-cm	3.00e+10 ohm-cm	50% RH; ASTM D257
Surface Resistance	8.00e+8 ohm	8.00e+8 ohm	ESD S11.11; 12 % R.H.
Surface Resistivity per Square	8.00e+9 ohm	8.00e+9 ohm	50% RH; ASTM D257

Electrical Properties	0.010 sec Metric	0.010 sec English	FTMS-101C; 12% R.H., (+5000 V to 50 Comments
	0.010 sec	0.010 sec	FTMS-101C; 12% R.H., (-5000 V to - 50 V)
	0.50 sec	0.50 sec	Charged Plate Monitor; 50% R.H.
Tribocharge	10 V	10 V	Nitrile Glove - BFG Test Method

Descriptive Properties	Value	Comments
Color	Light Blue	

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