

Lubrizol Stat-Rite® X-5111 Static Control Polypropylene

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

Material Notes:

Stat-Rite® X-5111 is a static dissipative Polypropylene alloy. Stat-Rite® X-5111 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 or injection molded. Features: Permanently static dissipative Humidity insensitive Ultra-Clean: low off-gassing, low ionic contamination Colorable Durable: Can be used repeatedly. No carbon/particulate fillers Applications: Cleanroom supplies Semiconductor handling Electronic component handling Disk Packaging Properties of all Stat-Rite® polymer products in the molten state are adversely affected by moisture. Although Stat-Rite® compounds are dry when packaged, trace amounts of moisture can be absorbed during storage and handling. For best results, always dry the material three to four hours at 70°C (160°F) in a dehumidifying hopper dryer. Data provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Stat-Rite-X-5111-Static-Control-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Melt Flow	40 g/10 min @Load 2.16 kg, Temperature 230 °C	40 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.7 MPa	3000 psi	ASTM D638
Elongation at Break	200 %	200 %	ASTM D638
Tensile Modulus	0.862 GPa	125 ksi	ASTM D638
Flexural Modulus	0.896 GPa	130 ksi	ASTM D790-90
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256-93a

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.00e+10 ohm-cm	6.00e+10 ohm-cm	50% RH; ASTM D257
Surface Resistance	8.00e+8 ohm	8.00e+8 ohm	ESD S11.11; 50 % R.H.

Electrical Properties	Metric	English	Comments
Static Decay	0.010 sec	0.010 sec	FTMS-101C; 12% R.H., (+5000 V to 50 V)
	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

Processing Properties	Metric	English	Comments
Drying Temperature	70.0 °C	158 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

Descriptive Properties	Value	Comments
Color	Light Blue	

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