

Lubrizol Stat-Rite® S-680 Static Control PETG Alloy

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , PETG Copolyester

Material Notes:

Stat-Rite® S-680 is a static dissipative PETG alloy. Stat-Rite® M-680 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 dissipative performance Humidity insensitive Ultra-clean: low off-gassing, low ionic contamination Colorable Durable: Can be used repeatedly. Applications: Hard disk packaging Medical device packaging Electronic component handling 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-680-Static-Control-PETG-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	350 %	350 %	ASTM D638
Tensile Modulus	1.10 GPa	160 ksi	ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	ASTM D790-92
Izod Impact, Notched	9.61 J/cm	18.0 ft-lb/in	ASTM D256-92

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)	55.0 °C	131 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+9 ohm-cm	2.00e+9 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	2.00e+9 ohm	2.00e+9 ohm	ASTM D257
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)
	0.10 sec	0.10 sec	Charged Plate Monitor; 50% R.H. MD,

Electrical Properties	Metric	English	(+1000 V to 10 V) Comments
Tribocharge	10 V	10 V	Nitrile Glove - BFG Test Method

Descriptive Properties	Value	Comments
Color	Light Blue	

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