

Stat-Rite® S-1180

Acrylic

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S-1180 Polymers is an Inherently Dissipative Polymer (IDP) specially developed using Lubrizol's patented Stat-Rite® IDP technology to impart permanent static dissipative property to acrylic resins. Blends of Stat-Rite® S-1180 Polymers with acrylics can be directly injection molded or extruded into the desired products. Typical loading of 10-25% shall impart surface resistivities of 10^9 - 10^{11} ohm/square to the final products.

FEATURES

Permanently static dissipative

Humidity independent

APPLICATIONS

Cleanroom accessories

Electronic equipment parts and housing

General Information			
Features	Antistatic		
	Humidity Independent		
	Rapid Static Decay		
Uses	Electrical Housing		
	Electrical Parts		
	Electrical/Electronic Applications		
	Housings		
	Masterbatch		
Appearance	Yellow		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	74	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	4.83	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Flexural Modulus	124	MPa	ASTM D790
Electrical	Nominal Value	Unit	Test Method
Static Decay			CPM
1000V to 100V, 50% R.H.	0.1	sec	
1000V to 10V, 50% R.H.	0.1	sec	
Surface Resistance - 12% R.H.	4.0E+6	ohms	ESD S11.11

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