Stat-Rite® S1100

Thermoplastic Polyurethane Elastomer Alloy Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite ® S1100 is a static dissipative TPU alloy. Stat-Rite S1100 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.

General Information					
Additive	Antistatic				
Features	Antistatic				
	Copolymer				
	Durable				
	ESD Protection				
	Good Colorability				
	Humidity Resistant				
	Low (to None) Ion Content				
	Low to No Outgassing				
Uses	Conveyor Parts				
	Electrical/Electronic Applications				
	Film				
	Hose				
	Rollers				
	Tubing				
Appearance	Clear/Transparent				
	Light Blue				
Forms	Pellets				
Processing Method	Extrusion				
	Injection Molding				
	Thermoforming				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.16	g/cm³	ASTM D792		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness			ASTM D2240		
Shore A	90				
Shore D	47				
Elastomers	Nominal Value	Unit	Test Method		

Tensile Stress			ASTM D412
100% Strain	8.00	MPa	
300% Strain	15.0	MPa	
Tensile Strength (Break)	26.0	MPa	ASTM D412
Tensile Elongation (Break)	450	%	ASTM D412
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
1	5.0E+8	ohms	ESD S11.11
2	5.0E+9	ohms	ASTM D257
Volume Resistivity	5.0E+9	ohms·cm	ASTM D257
Static Decay			
+1000 V to 100 V ³	0.1	sec	
+5000 V to 50 V ⁴	0.0100	sec	
-5000 V to -50 V ⁵	0.0100	sec	
Ionic Content			Internal Method
Anions Br-	< 2.00	ng/cm²	
Anions CI-	6.00	ng/cm²	
Anions F-	1.00	ng/cm²	
Anions NO3-	10.0	ng/cm²	
Anions PO4-	50.0	ng/cm²	
Anions SO4-	10.0	ng/cm²	
Non-Volatile Content	1.00	μg/cm²	Internal Method
Outgassing			Internal Method
MMA	0.0400	μg/g	
Styrene	< 0.0200	μg/g	
Toluene	< 0.0200	µg/g	
Total Organics	4.50	μg/g	
NOTE			
1.	12% RH		
2.	50% RH		
3.	Charged Plate Monitor, 50% RH		
4.	FTMS-101C, 12% RH		
5.	FTMS-101C, 12% RH		

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