

Stat-Rite® E1150

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® E1150 blend is a static dissipative thermoplastic polyurethane (TPU) alloy. Stat-Rite E1150 utilizes the patented Stat-Rite inherently dissipative polymer (IDP) alloy system to provide clean, permanent ESD protection. Stat-Rite alloys retain uniform static dissipation properties even when injection molded or extruded.

General Information			
Features	Antistatic		
	ESD Protection		
	High Clarity		
	Humidity Resistant		
	Low (to None) Ion Content		
	Low to No Outgassing		
Uses	Building Materials		
	Electrical/Electronic Applications		
	Tubing		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	5.20	MPa	
300% Strain	12.4	MPa	
Tensile Strength (Break)	32.0	MPa	ASTM D412
Tensile Elongation (Break)	760	%	ASTM D412
Tear Strength	68.0	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Volume Resistivity	4.0E+10	ohms · cm	ASTM D257
Static Decay ¹			
+5000 V to 50 V	1.3	sec	

-5000 V to -50 V	1.3	sec	
Ionic Content			Internal Method
Anions Cl-	3.00	mg/m ²	
Anions NO3-	0.0300	mg/m ²	
Anions PO4-	24.0	mg/m ²	
Anions SO4-	0.800	mg/m ²	
Cations Ca	0.300	mg/m ²	
Cations K	0.500	mg/m ²	
Cations Li	0.0400	mg/m ²	
Cations Mg	0.0600	mg/m ²	
Cations Na	15.0	mg/m ²	
Outgassing			Internal Method
MMA	< 0.100	ppm	
Styrene	< 0.100	ppm	
Toluene	< 0.100	ppm	
Total Organics	< 0.100	ppm	
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	2.0 to 3.0	hr	
NOTE			

1. FTMS-101C, 12% RH

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