

Stat-Rite® E1140

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® E1140 is a static dissipative thermoplastic polyurethane (TPU) alloy. Stat-Rite E1140 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			
Additive	Antistatic		
Features	Antistatic		
	ESD Protection		
	High Clarity		
	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)	82		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	5.10	MPa	
300% Strain	8.00	MPa	
Tensile Strength (Break)	30.0	MPa	ASTM D412
Tensile Elongation (Break)	670	%	ASTM D412
Tear Strength	65.0	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+11	ohms	ASTM D257
-- ¹	1.0E+10	ohms	ESD S11.11
Volume Resistivity	2.0E+10	ohms · cm	ASTM D257

Static Decay ²			
+5000 V to 50 V	0.9	sec	
-5000 V to -50 V	0.9	sec	
Ionic Content			Internal Method
Anions Cl-	0.900	mg/m ²	
Anions NO3-	0.0600	mg/m ²	
Anions PO4-	5.00	mg/m ²	
Anions SO4-	0.200	mg/m ²	
Outgassing - Total Organics	< 0.100	ppm	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	105	°C	
Drying Time	2.0 to 3.0	hr	
NOTE			
1.	12% RH		
2.	FTMS-101C, 12% RH		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

