

Stat-Rite® S-1107

Thermoplastic Polyurethane Elastomer Alloy

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S-1107 is a static dissipative TPU alloy. Stat-Rite S-1107 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
- Humidity insensitive
- Ultra-clean: low off-gassing, low ionic contamination
- Colorable
- Durable: Can be used for years and years

APPLICATIONS

- Cleanroom Conveyor wear strips
- Electronic component handling
- Cleanroom Softwall Curtains
- Cleanroom tubing and hose
- Cleanroom Conveyor Rollers

General Information	
Features	Antistatic
	Clean/High Purity
	Durable
	ESD Protection
	Good Colorability
	Humidity Independent
	Low (to None) Ion Content
	Low to No Outgassing
	Rapid Static Decay
Uses	Conveyor Parts
	Conveyors
	Electrical Parts
	Electrical/Electronic Applications
	Hose
	Rollers
	Tubing
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	83		ASTM D412
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
50% Strain	4.52	MPa	
100% Strain	5.21	MPa	
200% Strain	6.43	MPa	
Tensile Strength (Break)	11.5	MPa	ASTM D412
Tensile Elongation (Break)	700	%	ASTM D412
Electrical	Nominal Value	Unit	Test Method
Static Decay			
1000V to 100V, 50% R.H.	0.1	sec	CPM
5000V to 50V, 12% R.H.	< 2.0	sec	FTMS 101C
-5000V to -50V, 12% R.H.	< 2.0	sec	FTMS 101C
Surface Resistance - 12% R.H.	4.8E+7	ohms	ESD S11.11
Volume Resistance	2.3E+8	ohms	ESD S11.12
Filler Content	IDP Alloy		

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WECHAT