

Stat-Rite® S-102

Polyethylene Alloy
Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S-102 is a static dissipative Polyethylene alloy. Stat-Rite® S-102 utilizes the patented Stat-Rite® inherently dissipative polymer (IDP) alloy system to provide clean, permanent ESD protection. It is specially developed for blown film applications and is highly suitable for ESD-sensitive parts requiring a robust packaging that does not tear easily.

FEATURES

Clean, permanent, and more consistent than anti-stat
Provides protection for many years
Robust

APPLICATIONS

Semiconductor packaging
Electronic component packaging
Hard disk drive packaging

General Information			
Features	Antistatic		
	Clean/High Purity		
	ESD Protection		
	Good Tear Strength		
	Rapid Static Decay		
Uses	Blown Film		
	Electrical/Electronic Applications		
	Film		
	Packaging		
Appearance	Natural Color		
	Translucent		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15.2	MPa	ASTM D638
Tensile Elongation (Break)	> 500	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	8.0E+9	ohms · cm	ESD S11.12
Static Decay - 1000V to 10V	< 2.0	sec	CPM
Surface Resistance	4.0E+8	ohms	ESD S11.11
Tribocharge - Nitrile Gloves	< 20.0	V	Internal Method

Filler Content	IDP Alloy		
Ionic Content ¹			Internal Method
Br Anion : 60.0 μm	< 0.0100	μg/cm ²	
Cl Anion : 60.0 μm	< 0.0100	μg/cm ²	
F Anion : 60.0 μm	< 0.0100	μg/cm ²	
NO2 Anion : 60.0 μm	< 0.0100	μg/cm ²	
NO3 Anion : 60.0 μm	< 0.0100	μg/cm ²	
PO4 Anion : 60.0 μm	< 0.0100	μg/cm ²	
SO4 Anion : 60.0 μm	< 0.0100	μg/cm ²	
Outgassing ²			Internal Method
Hydrocarbons : 60.0 μm	445	ng/cm ²	
Phenols : 60.0 μm	22.0	ng/cm ²	
Total Outgassing : 60.0 μm	467	ng/cm ²	
Optical	Nominal Value	Unit	Test Method
Transmittance (60.0 μm)	84.0	%	ASTM D1003
Haze (60.0 μm)	37	%	ASTM D1003
NOTE			
1.	Test Method #3010-4		
2.	Test Method #3010-3		

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