

Stat-Rite® S-506

High Impact Polystyrene

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S-506 is a static dissipative High-Impact Polystyrene alloy. Stat-Rite® S-506 utilizes the patented Stat-Rite® inherently dissipative polymer (IDP) alloy system to enhance standard HIPS packaging sheet with a layer of clean, permanent ESD protection. Used as a skin layer, Stat-Rite® S-506 provides more consistent ESD protection than coatings and anti-stat. The Stat-Rite® skin will NOT wash off or deteriorate over time, providing reliable ESD protection for many years.

FEATURES

More permanent than anti-stat

Provides protection for many years

Cleaner than anti-stat, coatings or carbon-filled sheet

More consistent than anti-stat or coatings

APPLICATIONS

Static dissipative layer on HIPS electronics packaging

General Information			
Features	Antistatic		
	Clean/High Purity		
	Durable		
	ESD Protection		
	Good Wear Resistance		
	Rapid Static Decay		
Uses	Electrical/Electronic Applications		
	Packaging		
Appearance	Yellow		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1380	MPa	ASTM D638
Tensile Strength ² (Yield)	20.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	85	%	ASTM D638
Flexural Modulus ⁴	1380	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁵ (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistance - 12% R.H. ⁶	1.0E+9	ohms · cm	ESD S11.11
Surface Resistivity - 50% R.H. ⁷	3.0E+9	ohms/sq	ASTM D257

Filler Content	IDP Alloy
NOTE	
1.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio
2.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio
3.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio
4.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio
5.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio
6.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio
7.	measured on a co-extruded ABA sheet of S506/HIPS/S506 in a 10/80/10 thickness ratio

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