

# Stat-Rite® S250

Polypropylene Alloy  
Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S250 is a static dissipative polypropylene alloy. Stat-Rite® S250 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.

General Information			
Additive	Antistatic		
Features	Antistatic		
	Durable		
	ESD Protection		
	Good Colorability		
	High Purity		
	Humidity Resistant		
	Low (to None) Ion Content		
	Low to No Outgassing		
Uses	Electrical/Electronic Applications		
	Medical Packaging		
	Packaging		
Appearance	Light Blue		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.980	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1280	MPa	ASTM D638
Tensile Strength (Yield)	28.0	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	

1.8 MPa, Unannealed	50.0	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
-- <sup>1</sup>	8.0E+8	ohms	ESD S11.11
-- <sup>2</sup>	8.0E+9	ohms	ASTM D257
Volume Resistivity	3.0E+10	ohms·cm	ASTM D257
Static Decay - +1000 V to 10 V <sup>3</sup>	< 1.0	sec	
Tribocharge - Nitrile Glove	10.0	V	Internal Method
Ionic Content			Internal Method
Anions Cl-	7.00	ng/cm <sup>2</sup>	
Anions F-	< 10.0	ng/cm <sup>2</sup>	
Anions NO <sub>3</sub> -	5.00	ng/cm <sup>2</sup>	
Anions PO <sub>4</sub> -	16.0	ng/cm <sup>2</sup>	
Anions SO <sub>4</sub> -	5.00	ng/cm <sup>2</sup>	
Non-Volatile Content	1.30	µg/cm <sup>2</sup>	Internal Method
Outgassing			Internal Method
MMA	1.00	µg/g	
Styrene	< 0.100	µg/g	
Toluene	< 0.100	µg/g	
Total Organics	7.00	µg/g	
NOTE			
1.	12% RH		
2.	50% RH		
3.	CPM, 50% RH		

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#### Recommended distributors for this material

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