

# Stat-Rite® S408

Polyolefin

Lubrizol Advanced Materials, Inc.

## Message:

Stat-Rite® S408 is a static dissipative olefin copolymer alloy. Stat-Rite® S408 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		
	Copolymer		
	ESD Protection		
	Humidity Resistant		
	Low (to None) Ion Content		
	Low to No Outgassing		
Uses	Electrical/Electronic Applications		
	Packaging		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (210°C/2.16 kg)	76	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1960	MPa	ASTM D638
Tensile Strength (Yield)	45.0	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	1860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
-- <sup>1</sup>	7.0E+9	ohms	ESD S11.11
-- <sup>2</sup>	7.0E+10	ohms	ASTM D257

Volume Resistivity	9.0E+10	ohms·cm	ESD S11.12
Static Decay <sup>3</sup>			
+1000 V to 10 V	< 15.0	sec	
+1000 V to 100 V	< 8.0	sec	
Tribocharge - Nitrile Glove	< 30.0	V	Internal Method
Ionic Content			Internal Method
Anions Cl-	20.0	ng/cm <sup>2</sup>	
Anions NO3-	35.0	ng/cm <sup>2</sup>	
Anions PO4-	< 50.0	ng/cm <sup>2</sup>	
Anions SO4-	< 40.0	ng/cm <sup>2</sup>	
Cations Ca	25.0	ng/cm <sup>2</sup>	
Cations K	2.00	ng/cm <sup>2</sup>	
Cations Li	< 60.0	ng/cm <sup>2</sup>	
Cations Mg	< 3.00	ng/cm <sup>2</sup>	
Cations Na	< 20.0	ng/cm <sup>2</sup>	
Cations NH4	< 3.00	ng/cm <sup>2</sup>	
Outgassing			Internal Method
MMA	< 0.0300	µg/g	
Styrene	< 0.0200	µg/g	
Toluene	< 0.0200	µg/g	
Total Organics	< 1.00	µg/g	
NOTE			
1.	12% RH		
2.	50% RH		
3.	CPM, 12% RH		

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