

## Lubrizol Stat-Rite® X5166 Static Dissipative Polystyrene Compound

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

### Material Notes:

Stat-Rite® X5166 is a static dissipative, High-Impact Polystyrene alloy. Stat-Rite® X5166 utilizes the patented Stat-Rite® inherently dissipative polymer (IDP) alloy system to provide clean, permanent ESD protection. Stat-Rite® IDP alloys retain consistent uniform static dissipation properties when thermoformed into complex tray designs. Features: Clean: no sloughing, low offgassing, low ionics Consistent ESD properties after thermoforming Carbon-free protection Applications: Electronic component packaging Tape and reel packaging Electronic assembly trays Information provided by Noveon, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lubrizol-Stat-Rite-X5166-Static-Dissipative-Polystyrene-Compound.php](http://www.lookpolymers.com/polymer_Lubrizol-Stat-Rite-X5166-Static-Dissipative-Polystyrene-Compound.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D-792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	14.5 MPa	2100 psi	ASTM D-638-95
Elongation at Break	60 %	60 %	ASTM D-638-95
Tensile Modulus	0.894 GPa	130 ksi	ASTM D-638-95
Flexural Modulus	0.894 GPa	130 ksi	ASTM D-790-95
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D-256-92

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ASTM D-648-92
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	ASTM D-648-92
Vicat Softening Point	94.0 °C	201 °F	ASTM D-1525-95

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	5.00e+10 ohm	5.00e+10 ohm	ASTM D-257
Static Decay	0.30 sec	0.30 sec	+5000 to 50 V; (12% R.H.); FTMS-101C
	1.5 sec	1.5 sec	+1000 to 100 V; Charged Plate Monitor (50% R.H.)

Descriptive Properties	Value	Comments
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Color Descriptive Properties	White Value	Comments
Filler	IDP Alloy	

## Contact Songhan Plastic Technology Co.,Ltd.

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