

Stat-Rite® M690

Polyethylene Terephthalate Glycol Comonomer

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® M690 is a static dissipative PETG alloy. Stat-Rite M690 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
	ESD Protection
	Good Colorability
	Low (to None) Ion Content
	Low to No Outgassing
Uses	Recyclable Material
	Electrical/Electronic Applications
	Medical Packaging
	Packaging
Appearance	Pearl
Forms	Sheet
Processing Method	Extrusion
	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1240	MPa	ASTM D638
Tensile Strength (Yield)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	1240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	60.0	°C	
1.8 MPa, Unannealed	55.0	°C	
Electrical	Nominal Value	Unit	Test Method

Surface Resistivity			
-- ¹	2.0E+9	ohms	ESD S11.11
-- ²	2.0E+10	ohms	ASTM D257
Volume Resistivity	2.0E+10	ohms·cm	ASTM D257
Static Decay ³			
+5000 V to 50 V	0.1	sec	
-5000 V to -50 V	0.1	sec	
Tribocharge - Nitrile Glove	25.0	V	Internal Method
Ionic Content			Internal Method
Anions Cl-	20.0	ng/cm ²	
Anions NO ₃ -	30.0	ng/cm ²	
Anions PO ₄ -	40.0	ng/cm ²	
Anions SO ₄ -	10.0	ng/cm ²	
Cations Na+	150	ng/cm ²	
Non-Volatile Content	1.00	μg/cm ²	Internal Method
Outgassing			Internal Method
MMA	0.250	μg/g	
Styrene	0.0300	μg/g	
Toluene	0.0500	μg/g	
Total Organics	1.70	μg/g	

NOTE

1. 12% RH
2. 50% RH
3. FTMS-101C, 12% RH

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