Stat-Rite® S-680

Polyethylene Terephthalate Glycol Comonomer

Lubrizol Advanced Materials, Inc.

Message:

Stat-Rite® S-680 is a static dissipative PETG alloy. Stat-Rite® S-680 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 thermoformed or injection molded into components.
FEATURES
Permanently static dissipative
Humidity Independent
Ultra clean: low out-gassing, low extractable ionics
Durable: can be used for years
APPLICATIONS
Hard disk drive component packaging
Electronic component packaging
Medical device packaging

General Information	
Features	Antistatic
	Clean/High Purity
	Durable
	ESD Protection
	Humidity Independent
	Low (to None) Ion Content
	Low Extractables
	Low to No Outgassing
	Rapid Static Decay
Uses	Computer Components
	Electrical/Electronic Applications
	Medical Packaging
	Packaging
Appearance	Light Blue
Forms	Sheet
Processing Method	Injection Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1100	MPa	ASTM D638
Tensile Strength (Yield)	28.3	MPa	ASTM D638
Tensile Elongation (Break)	350	%	ASTM D638

Flexural Modulus	1240	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	960	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**
Volume Resistivity	5.0E+9	ohms·cm	ASTM D257
Static Decay			
1000V to10V, 50% R.H.	0.3	sec	CPM
-5000V to -50V	0.0100	sec	
5000V to 50V, 12% R.H.	0.0100	sec	FTMS 101C
Surface Resistance - 12% R.H.	5.0E+8	ohms	ESD S11.11
Surface Resistivity - 50% R.H.	2.0E+9	ohms/sq	ASTM D257
Tribocharge - Nitrile Glove	10.0	V	Internal Method
Filler Content	IDP Alloy		
Ionic Content [1]			Internal Method
Cl Anion	5.00	ng/cm²	
F Anion	2.00	ng/cm²	
NO3 Anion	3.00	ng/cm²	
PO4 Anion	2.00	ng/cm²	
SO4 Anion	5.00	ng/cm²	
Non-Volatile Content [2]	0.500	µg/cm²	Internal Method
Outgassing [3]			Internal Method
MMA	0.800	µg/g	
Styrene	0.100	µg/g	
Toluene	0.300	µg/g	
Total Organics	4.00	µg/g	

NOTE	
1.	Test Method #3010-4
2.	Test Method #3010-5
3.	Test Method #3010-3

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China