

Product Data

**Roll, PETG Static
Dissipative**

Model : S680

Code : 1510 Series

Pro-Pack Materials Pte Ltd

Blk 970, Toa Payoh North, #04-18
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Philippines
Pro-Pack Materials (Philippines) Inc.

India
Pro-Pack Materials India Pvt Ltd

China
Pro-Pack Materials (Wuxi) Co., Ltd

Features	Application
Permanent static dissipative	Electronic assembly packaging
Humidity insensitive	Medical device packaging
Ultra– Clean : Low off-gassing, low ionic contamination	Hard disk packaging
Colorable	
Durable : Can be used for years and years	

Typical Properties	S680	Units	Test Method
Host Polymer	PETG	-	-
Filler	IDP alloy	-	-
Color	Light Blue	-	-
Specific Gravity	1.25	g/cc	ASTM D792

Electrical Properties

Surface Resistivity	1×10^9	Ohm / Sq	ASTM D257 (50% R.H.)
Surface Resistance	9×10^8	Ohm	ESD S11.11 (12% R.H.)
Volume Resistivity	1×10^9	Ohm-cm	ASTM D257
Static Decay Rate +5000 V to 50 V	0.01	Sec	FTMS-101C (12% R.H.) Charge Plate Monitor (50% R.H.)
Static Decay Rate - 5000 V to -50 V	0.01	Sec	
Static Decay Rate + 1000 V to 100 V	0.1	Sec	
Tribocharge (Nitrile Glove)	10	Volts	-

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Mechanical Properties	S680	Unit	Test Method
Tensile Strength @ Yield	4100 (28)	psi (MPa)	ASTM D638
Tensile Elongation, Break	350	%	ASTM D638
Tensile Modulus	160,000 (1240)	psi (MPa)	ASTM D638
Flexural Modulus	180,000 (1240)	psi (MPa)	ASTM D790 92
HDT @ 66 psi	140 (60)	°F (°C)	ASTM D648
HDT @ 264 psi	131 (55)	°F (°C)	ASTM D648
Notched Izod Impact	18 (942)	ft/lb/in (J/m)	ASTM D256 92

Out Gassing Components

MMA	0.1	µg/g	#3010-3
Styrene	< 0.02	µg/g	#3010-3
Toluene	< 0.02	µg/g	#3010-3
Total Organics	3.0	µg/g	

Ionic Contact – Anions

Cl	3	µg/cm ²	#3010-4
NO ₃	< 0.5	µg/cm ²	#3010-4
SO ₄ ²⁻	< 0.6	µg/cm ²	#3010-4
PO ₄ ⁻³	2	µg/cm ²	#3010-4
F	< 2.5	µg/cm ²	#3010-4

Non-Volatile Residue

Na ⁺	1.1	µg/cm ²	#3010-4
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