

STATIMAX® 810

PBI Electrostatic Dissipative (ESD)

GENERAL	DESCRIPTION
Available in	Rods / Tubes / Plates / Machined parts
Filler Content (Nominal Value)	25% Carbon filled

PHYSICAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Density		ASTM D792	0.051 lbs/in ³	1.42 g/cm ³
Moisture Absorption	@ 23°C, 24hrs	ASTM D570	0.4 %	0.4 %
Hardness, Shore D		ASTM D2240	98	98

MECHANICAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Tensile Strength		ASTM D638	32 kpsi	220 MPa
Tensile Modulus		ASTM D638	1.74 Mpsi	12 GPa
Tensile Elongation	@ break	ASTM D638	2.5 %	2.5 %
Flexural Strength		ASTM D790	42 kpsi	290 MPa
Flexural Modulus		ASTM D790	1.9 Mpsi	13 GPa
Compressive Strength		ASTM D695	65 kpsi	450 MPa
Izod Impact, Notched	@ 1/8"	ASTM D256	0.6 ft-lb/in	0.32 J/cm

THERMAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Glass Transition Temperature		DSC	801 °F	427 °C
HDT	@ 1.8 MPa (264 psi) @ 0.46 Mpa (66 psi)	ASTM D648	842 °F	450 °C
CTE, linear	@ 24 - 149°C	ASTM D696	6.7 µin/in-°F	12 µm/m-°C
Flammability	@ 3mm (1/8 in)	UL 94	V-0 class	V-0 class

ELECTRICAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Surface Resistivity*		ASTM D257	10 ¹ -10 ³ ohm/sq	10 ¹ -10 ³ ohm/sq

*Resistivity measured for PBI product is for reference only due to sensitivity to moisture and measurement protocol. Statimax 800 series are composition based grades.

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