

STATIMAX® 820

PBI Electrostatic Dissipative (ESD)

GENERAL	DESCRIPTION
Available in	Rods / Tubes / Plates / Machined parts
Filler Content (Nominal Value)	15% Carbon filled

PHYSICAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Density		ASTM D792	0.050 lbs/in ³	1.38 g/cm ³
Moisture Absorption	@ 23°C, 24hrs	ASTM D570	0.4 %	0.4 %
Hardness, Shore D		ASTM D2240	96	96

MECHANICAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Tensile Strength		ASTM D638	29 kpsi	200 MPa
Tensile Modulus		ASTM D638	1.31 Mpsi	9 GPa
Tensile Elongation	@ break	ASTM D638	2.5 %	2.5 %
Flexural Strength		ASTM D790	38 kpsi	260 MPa
Flexural Modulus		ASTM D790	1.4 Mpsi	9.7 GPa
Compressive Strength		ASTM D695	62 kpsi	430 MPa
Izod Impact, Notched	@ 1/8"	ASTM D256	0.55 ft-lb/in	0.29 J/cm

THERMAL	@ CONDITION	TEST METHOD	IMPERIAL	METRIC
Glass Transition Temperature		DSC	801 °F	427 °C
HDT	@ 1.8 MPa (264 psi)	ASTM D648	820 °F	438 °C
CTE, linear	@ 24 - 149°C	ASTM D696	8.9 µin/in-°F	16 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 ⁴ -10 ⁶ ohm/sq	10 ⁴ -10 ⁶ 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.

This information and all further technical advice are based Polymics' present knowledge and experience. However, neither Polymics Ltd nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The use of this product resides on the determination of the customer not Polymics Ltd. The customer must determine suitability of any information or material for any contemplated use, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes. Polymics reserves the right to make additions, deletions, or modifications to the information at any time without prior notification.