

Celazole[®] PBI U-60 ESD E5

Typical Properties

PROPERTIES	ASTM METHOD	ENGLISH VALUE	METRIC VALUE
MECHANICAL			
Tensile Strength (break)	D638	29 kpsi	200 MPa
Modulus		1300 kpsi	9000 MPa
Elongation (break)		2.5 %	2.5%
Flexural Strength (yield)	D790	37 kpsi	260 MPa
Flexural Modulus		1400 kpsi	9700 MPa
Compressive Strength	D695	62 kpsi	430 MPa
Izod Impact Strength (notched 1/8")	D256	0.55 ft-lb/in	0.29 J/cm
Hardness – Shore D	D2240	96	96
THERMAL			
Glass Transition	DMA	800°F	427°C
Coefficient of Linear Thermal Expansion 75-300°F (25-150°C)	D696	9 X 10 ⁻⁶ in/in°F	16 µm/m°C
ELECTRICAL			
Surface Resistivity	D257	10 ⁴ – 10 ⁶ ohm/sq	10 ⁴ – 10 ⁶ ohm/sq
OTHER			
Specific Gravity	D792	1.38	1.38
Carbon Fiber content (nominal)		15 %	15 %

U-60ESD is an electrostatic dissipative compression molded PBI variant available as a stock shape. ESD characteristic can be tailored to need.

PBI Performance Products, Inc.
9800 Southern Pine Blvd Suite D
Charlotte, NC 28273 USA
704.554.3378
www.CelazolePBI.com