

Celazole[®] PBI U-60 ESD E8

Typical Properties

PROPERTIES	ASTM METHOD	ENGLISH VALUE	METRIC VALUE
MECHANICAL			
Tensile Strength (break)	D638	26 kpsi	180 MPa
Modulus		1100 kpsi	7600 MPa
Elongation (break)		2.5 %	2.5 %
Flexural Strength (yield)	D790	35 kpsi	240 MPa
Flexural Modulus		1300 kpsi	9000 MPa
Compressive Strength	D695	60 kpsi	410 MPa
Izod Impact Strength (notched 1/8")	D256	0.5 ft-lb/in	0.27 J/cm
Hardness – Shore D	D2240	95	95
THERMAL			
Glass Transition	DMA	800°F	427°C
Coefficient of Linear Thermal Expansion 75-300°F (25-150°C)	D696	11 X 10 ⁻⁶ in/in°F	20 μm/m°C
ELECTRICAL			
Surface Resistivity	D257	10 ⁶ – 10 ⁹ ohm/sq	10 ⁶ – 10 ⁹ ohm/sq
OTHER			
Specific Gravity	D792	1.36	1.36
Carbon Fiber content (nominal)		10 %	10 %

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