

# Celazole<sup>®</sup> PBI U-60 CF

## Typical Properties

PROPERTIES	ASTM METHOD	ENGLISH VALUE	METRIC VALUE
<b>MECHANICAL</b>			
Tensile Strength (break)	D638	32 kpsi	220 MPa
Modulus		1740 kpsi	12000 MPa
Elongation (break)		2.5 %	2.5 %
Flexural Strength (yield)	D790	42 kpsi	290 MPa
Modulus		1885 kpsi	13000 MPa
Compressive Strength	D695	65 kpsi	450 MPa
Compressive Modulus	D695	1595 kpsi	11000 MPa
Izod Impact Strength (notched 1/8")	D256	0.6 ft-lb/in	0.32 J/cm
Hardness – Shore D	D2240	98	98
<b>THERMAL</b>			
Glass Transition	DMA	800°F	427°C
Coefficient of Linear Thermal Expansion			
75-300°F (25-150°C)	TMA	6.7 X 10 <sup>-6</sup> in/in°F	12 μm/m°C
390-570°F (200-300°C)	TMA	10 X 10 <sup>-6</sup> in/in°F	18 μm/m°C
<b>ELECTRICAL</b>			
Surface Resistivity	D257	10 <sup>1</sup> – 10 <sup>3</sup> ohm/sq	10 <sup>1</sup> – 10 <sup>3</sup> ohm/sq
<b>OTHER</b>			
Specific Gravity	D792	1.42	1.42
Carbon Fiber content (nominal)		25 %	25 %

U-60CF is an ultra-high strength carbon fiber reinforced compression molded PBI variant available as stock shape.

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