

Celazole[®] TU-60

Unreinforced Melt Processable PBI

Typical Properties

PROPERTIES	ASTM METHOD	ENGLISH VALUE	METRIC VALUE
MECHANICAL			
Tensile Strength	D-638	13 kpsi	90 MPa
Modulus		740 kpsi	5100 MPa
Elongation		1.8%	1.8%
Flexural Strength	D-790	21 kpsi	144 MPa
Modulus		700 kpsi	4800 MPa
Compressive Strength	D-695	30 kpsi	206 MPa
Modulus		430 kpsi	2900 MPa
THERMAL			
Coefficient of Linear Thermal Expansion			
75-300°F	TMA	19 X 10 ⁻⁶ in/in°F	34 µm/m°C
390-570°F	TMA	39 X 10 ⁻⁶ in/in°F	70 µm/m°C
Temperature of Initial (5%) Weight Loss In:			
Air	TGA	930°F	499°C
Nitrogen	TGA	930°F	499°C
ELECTRICAL			
Dielectric Strength	D-149	433 V/mil	17 KV/mm
Volume Resistivity	D-257	2 X 10 ¹⁶ ohm-cm	2 X 10 ¹⁶ ohm-cm
Dissipation Factor			
1 kHz	D-150	0.000	0.000
10 kHz	D-150	0.001	0.001
Dielectric Constant			
1 kHz	D-150	3.4	3.4
10 kHz	D-150	3.4	3.4
Arc Resistance	D-495	135 seconds	135 seconds
OTHER			
Water Absorption			
@ Equilibrium	D-570	6.5%	6.5%
Specific Gravity		1.3	1.3
Hardness, Rockwell A	D-785	25	25

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