

Celazole[®] TF-60C

Carbon Fiber Reinforced Melt Processable PBI

Typical Properties

PROPERTIES	ASTM METHOD	ENGLISH VALUE	METRIC VALUE
MECHANICAL			
Tensile Strength	D-638	27 kpsi	185 MPa
Modulus		3480 kpsi	24,000 MPa
Elongation		1.2%	1.2%
Flexural Strength	D-790	45 kpsi	309 MPa
Modulus		2990 kpsi	20,600 MPa
Compressive Strength	D-695	32 kpsi	220 MPa
Modulus		550 kpsi	3800 MPa
OTHER			
Specific Gravity		1.4	1.4
Hardness, Rockwell A	D-785	30	30
Poisson's Ratio		0.39	0.39
Water Absorption			
24 hours @ 73°F	D-570	0.15	0.15
@ Equilibrium	D-570	4.0%	4.0%
THERMAL			
Coefficient of Linear Thermal Expansion			
75-300°F	TMA	14 X 10 ⁻⁶ in/in°F	26 μm/m°C
Heat Capacity @ 158°F	DSC	0.28 Btu/lb°F	1180 J/kg°C
Heat Deflection Temperature @ 264 psi	D648	608°F	320°C
Temperature of Initial (5%) Weight Loss In:			
Air	TGA	1110°F	599°C
Nitrogen	TGA	1160°F	627°C
Thermal Conductivity @ 75°F	F-433	3.1 Btu-in/hr•ft ² °F	0.39 kcal/mh°C

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