

Spartech Millennium III Glass Filled PC Structural Sheet

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Description: Structural Sheet Information provided by Spartech.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-Millennium-III-Glass-Filled-PC-Structural-Sheet.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	73.1 MPa	10600 psi	ASTM D638
Tensile Modulus	4.044 GPa	586.6 ksi	ASTM D638
Flexural Yield Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.53 GPa	367 ksi	ASTM D790
Falling Dart Impact	27.5 J	20.3 ft-lb	73°F; ASTM D3029

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 $\mu\text{m/m}\cdot^\circ\text{C}$ @Temperature 20.0 $^\circ\text{C}$	18.0 $\mu\text{in/in}\cdot^\circ\text{F}$ @Temperature 68.0 $^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	138 $^\circ\text{C}$	280 $^\circ\text{F}$	ASTM D648

Optical Properties	Metric	English	Comments
Gloss	90 %	90 %	Gardner; ASTM D2523

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