

TECAPEEK CM GF30 natural (XP91) - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
beige

Density
1.56 g/cm³

Fillers
30% glass fibres

Main features
excellent strength
broad chemical compatibility
good dimensional stability
high stiffness

Target Industries
oil and gas industry
chemical and refinery industry

| <i>Mechanical properties</i> | <i>parameter</i> | <i>value</i> | <i>unit</i> | <i>norm</i> | <i>comment</i> |
|---------------------------------------|------------------|--------------|-------------|-------------|---------------------|
| Tensile strength | @ 73°F | 11,700 | psi | ASTM D 638 | (1) Units = Shore D |
| Modulus of elasticity (tensile test) | @ 73°F | 1,050,000 | psi | ASTM D 790 | |
| Elongation at break (tensile test) | @ 73°F | 2.4 | % | ASTM D 638 | |
| Flexural strength | @ 73°F | 19,000 | psi | ASTM D 790 | |
| Modulus of elasticity (flexural test) | @ 73°F | 1,100,000 | psi | ASTM D 790 | |
| Compression strength | @ 1% | 6,200 | psi | ASTM D 695 | |
| Compression strength | @ 10% | 24,000 | psi | ASTM D 695 | |
| Compression strength | Max Load | 24,000 | psi | ASTM D 695 | |
| Compression modulus | | 510,000 | psi | ASTM D 695 | |
| Impact strength (Izod) | @ 73°F | 0.67 | ft-lbs/in | ASTM D 256 | |
| Shore hardness | @73°F; Mscale | 92 | D | ASTM D 2240 | 1) |
| <i>Thermal properties</i> | <i>parameter</i> | <i>value</i> | <i>unit</i> | <i>norm</i> | <i>comment</i> |
| Melting temperature | | 649 | °F | - | |

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