

TECAPEEK CM XP117 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.45 g/cm³

Fillers

PTFE

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 | 7,500 | psi | - | (1) Units = Shore D |
| Modulus of elasticity (tensile test) | @ 73°F | 500,000 | psi | ASTM D 638 | |
| Elongation at yield (tensile test) | @73°F | 5.0 | % | ASTM D 638 | |
| Elongation at break (tensile test) | @ 73°F | 5.0 | % | ASTM D 638 | |
| Flexural strength | @ 73°F | 14,000 | psi | ASTM D 790 | |
| Modulus of elasticity (flexural test) | @ 73°F | 485,000 | psi | ASTM D 790 | |
| Compression strength | @ 73°F | 1,600 | psi | ASTM D 695 | |
| Shore hardness | @ 73°F | 85 | | 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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