

TECAPEEK CM XP96 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige opaque

Density

1.36 g/cm³

production process: compression moulding

Main features

- inherent flame retardant
- good heat deflection temperature
- hydrolysis and superheated steam resistant
- good machinability
- good slide and wear properties

Target Industries

- oil and gas industry

| <i>Mechanical properties</i> | <i>parameter</i> | <i>value</i> | <i>unit</i> | <i>norm</i> | <i>comment</i> |
|---------------------------------------|------------------|--------------|-------------|-------------|----------------|
| Tensile strength | | 95 | MPa | ASTM D 638 | |
| Modulus of elasticity (tensile test) | | 5300 | MPa | ASTM D 638 | |
| Elongation at break (tensile test) | | 4.5 | % | ASTM D 638 | |
| Flexural strength | | 153 | MPa | ASTM D 790 | |
| Modulus of elasticity (flexural test) | | 4800 | MPa | ASTM D 790 | |
| Compression modulus | | 2400 | MPa | ASTM D 695 | |
| Shore hardness | Shore D | 89 | | ASTM D 2240 | |
| <i>Thermal properties</i> | <i>parameter</i> | <i>value</i> | <i>unit</i> | <i>norm</i> | <i>comment</i> |
| Melting temperature | DSC | 342 | °C | - | |
| Heat distortion temperature | | 148 | °C | ASTM D 648 | |

→ TECAPEEK products are based on Victrex® PEEK polymer.

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