# TECAPEEK CM XP270 black - Stock Shapes (rods, plates, tubes)

*Chemical Designation*
PEEK (Polyetheretherketone)

*Colour*
black

*Density*
1.4 g/cm$^3$

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

*Target Industries*
- chemical and refinery industry
- oil and gas industry

| *Mechanical properties* | *condition* | *value* | *unit* | *test method* | *comment* |
|---|---|---|---|---|---|
| Tensile strength | @73°F | 10,300 | psi | ASTM D 638 | |
| Modulus of elasticity (tensile test) | @73°F | 1,600,000 | psi | ASTM D 638 | |
| Elongation at break (tensile test) | @73°F | 0.8 | % | ASTM D 638 | |
| Flexural strength | @73°F | 17,000 | psi | ASTM D 790 | |
| Modulus of elasticity (flexural test) | @73°F | 1,500,000 | psi | ASTM D 790 | |
| Notched impact strength (Izod) | @73°F | 0.6 | ft-lbs/in | ASTM D 256 | |

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