

TECAPEEK CM XP100 black - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black opaque

Density

1.47 g/cm³

Fillers

carbon fibres, graphite, PTFE

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

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		64	MPa	ASTM D 638	
Modulus of elasticity (tensile test)		7500	MPa	ASTM D 638	
Elongation at break (tensile test)		1.5	%	ASTM D 638	
Flexural strength		110	MPa	ASTM D 790	
Modulus of elasticity (flexural test)		6200	MPa	ASTM D 790	
Compression strength		132	MPa	ASTM D 695	
Compression modulus		2200	MPa	ASTM D 695	
Shore hardness	Shore D	85		ASTM D 2240	
Thermal properties	parameter	value	unit	norm	comment
Melting temperature	DSC	342	°C	-	
Electrical properties	parameter	value	unit	norm	comment

→ TECAPEEK products are based on Victrex® PEEK polymer.

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