

TECAPEEK CM XP98 black - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black opaque

Density

1.43 g/cm³

Fillers

carbon fibres

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		126	MPa	ASTM D 638	
Modulus of elasticity (tensile test)		9600	MPa	ASTM D 638	
Elongation at break (tensile test)		2.2	%	ASTM D 638	
Flexural strength		210	MPa	ASTM D 790	
Modulus of elasticity (flexural test)		11000	MPa	ASTM D 790	
Compression strength		181	MPa	ASTM D 695	
Shore hardness	Shore D	93		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		> 237	°C	ASTM D 648	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
surface resistivity		10 ⁵	Ω	-	

→ TECAPEEK products are based on Victrex® PEEK polymer.

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