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

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black opaque

Density
1.43 g/cm^3

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

Mechanical properties	*parameter*	*value*	*unit*	*norm*	*comment*
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	

Thermal properties	*parameter*	*value*	*unit*	*norm*	*comment*
Melting temperature	DSC	342	°C	-	
Heat distortion temperature		> 237	°C	ASTM D 648	

Electrical properties	*parameter*	*value*	*unit*	*norm*	*comment*
surface resistivity		10^6	Ω	-	

- TECAPEEK products are based on Victrex® PEEK polymer.

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