

## TECAPEEK IM PVX black - Stock Shapes (rods, plates, tubes)

Chemical Designation PEEK (Polyetheretherketone) Colour black opaque Density 1.45 g/cm <sup>3</sup> Fillers carbon fibres, graphite, PTFE		Main features → very good chemica → inherent flame reta → good heat deflectio → hydrolysis and sup resistant → good machinability → good slide and wea	rdant on temperat erheated st	ure team	Target Industries → oil and gas industry → chemical technology → energy industry → mechanical engineering
Mechanical properties	parameter	value	unit	norm	comment

Tensile strength	50mm/min	150	MPa	DIN EN ISO 527-2	1)	(1) For tensile test: specimen	
Modulus of elasticity (tensile test)	1mm/min	13000	MPa	DIN EN ISO 527-2	_	(2) For flexural test: support span 64mm, norm specimen.	
Elongation at break (tensile test)	50 mm/min	2.3	%	DIN EN ISO 527-2			
Flexural strength	2mm/min, 10 N	230	MPa	DIN EN ISO 178	2)		
Modulus of elasticity (flexural test)	2mm/min, 10 N	11500	MPa	DIN EN ISO 178			
Shore hardness		83	_	DIN EN ISO 868			
Thermal properties	parameter	value	unit	norm		comment	
Glass transition temperature		150	°C	DIN EN ISO 11357	1)	<ol> <li>Found in public sources.</li> <li>Found in public sources. Individual testing regarding application conditions is mandatory.</li> </ol>	
Melting temperature		341	°C	DIN EN ISO 11357			
Service temperature	short term	300	°C	-	2)		
Service temperature	long term	300	°C	-			

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