

SUPPLY SERVICES

performance engineering products

Ensinger 

TECAPEEK SM PVX black – Spin Moulding

Chemical designation

PEEK (polyetheretherketone)

Colour

black

Density

1.43 g/cm³

Fillers

carbon fibres, graphite, PTFE

Production process: spin moulding

Main features

- high thermal and mechanical capacity
- hydrolysis and superheated steam resistant
- good chemical resistance
- inherent flame retardant
- good machinability
- very good slide and wear properties
- good wear resistance

Target Industries

- oil and gas industry
- chemical technology
- mechanical engineering
- aircraft and aerospace technology
- food engineering
- automotive industry
- packaging and paper machinery
- textile industry

Mechanical properties	parameter	value	unit	norm	comment
Modulus of elasticity (tensile test)		6000	MPa	BS EN ISO 527-2	
Tensile strength		70	MPa	BS EN ISO 527-2	
Tensile strength at yield		70	MPa	BS EN ISO 527-2	
Elongation at break		2	%	BS EN ISO 527-2	
Shore D hardness		85		BS EN ISO 868	

Thermal properties	parameter	value	unit	norm	comment
Glass transition temperature		143	°C	DIN 53765	1)
Melting temperature		343	°C	DIN 53765	
Service temperature	short term	300	°C		2)
Service temperature	long term	260	°C		

➤ TECAPEEK products are based on Victrex® PEEK polymer.

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