

TECAPEEK SM CF30 black – Spin Moulding

Chemical designation

PEEK (polyetheretherketone)

Colour

black

Density

1.43 g/cm³

Fillers

carbon fibres

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)		7500	MPa	BS EN ISO 527-2	
Tensile strength		104	MPa	BS EN ISO 527-2	
Tensile strength at yield		104	MPa	BS EN ISO 527-2	
Elongation at break		2.6	%	BS EN ISO 527-2	
Shore D hardness		89		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.

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference on spin moulded and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensinger.co.uk. Technical changes reserved.

Ensinger Ltd
Wilfried Way
Tonyrefail, Mid Glamorgan CF39 8JQ
Great Britain

Phone (01443) 678400
Fax (01443) 675777
www.ensinger.co.uk

Date: 2015/10/15

Version: AA

CURBELL
PLASTICS

1-888-CURBELL

www.curbellplastics.com

Curbell Plastics is a proud supplier of Ensinger materials.