

TECATRON PPS CM XP64 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PPS (Polyphenylsulfide)

Colour

beige opaque

Density

1.7 g/cm³

Fillers

40% glass fibres

production process: compression moulding

Main features

- high dimensional stability
- good chemical resistance
- high creep resistance
- good heat deflection temperature
- resistance against high energy radiation
- high stiffness
- high strength

Target Industries

- oil and gas industry

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		42	MPa	ASTM D 638	
Modulus of elasticity (tensile test)		6200	MPa	ASTM D 638	
Elongation at break (tensile test)		1.1	%	ASTM D 638	
Flexural strength		75	MPa	ASTM D 790	
Modulus of elasticity (flexural test)		8200	MPa	ASTM D 790	
Compression strength		172	MPa	ASTM D 695	
Compression modulus		3900	MPa	ASTM D 695	
Shore hardness	Shore D	88		ASTM D 2240	
Thermal properties	parameter	value	unit	norm	comment
Heat distortion temperature		112	°C	ASTM D 648	

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 dimensions (typically rods with diameter 40-60 mm according to DIN EN 15860) on compression 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.ensingerplastics.com. Technical changes reserved.

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

Phone (01443) 678400
Fax (01443) 675777
ensingerplastics.com

Date: 2019/01/07

Version: AC