

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

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
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	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Heat distortion temperature		112	°C	ASTM D 648	

