

Physical properties PPS GF 40

Product characteristics:

- Extremely high stiffness
- Good dimensional stability
- Very low creep tendency

Product applications:

- Electrical industry
- Chemical engineering and tank building
- Medical engineering

General properties	Test method	Unit	Value
Color			
Density	DIN EN ISO 1183-1	g/cm ³	1.65
Water absorption	DIN EN ISO 62	%	0.0
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0 / V0
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	90
Elongation at break	DIN EN ISO 527	%	2
Tensile modulus of elasticity	DIN EN ISO 527	MPa	6500
Shore hardness	DIN EN ISO 868	scala D	92
Thermal properties			
Crystalline grain melting range	ISO 11357-3	°C	285
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ /K	30
Service temperature, long term	Average	°C	0 ... 220
Service temperature, short term (max.)	Average	°C	250
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	260

This table is a valuable help in the choice of a material. The data listed here fall within the normal range of products properties, but they should not be used to establish material specification limits nor used alone as the basis of design.