

Technical Data Sheet

Sustatron[®] PPS GF 40 natural

PPS

Typical characteristics

- Low creep tendency
- Flame retardant
- Self-extinguishing
- High continuous service temperature
- High stiffness

Typical industries

- Conveyor Technology & Automation
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
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	scale D	92
Thermal properties			
Melting temperature	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

