

PPS GF40, with 40% glass fibre

Mechanical properties	Test method	Test environment	Unit	Value
Tensile strength	ISO 527	break	MPa	185
Tensile strain	ISO 527	break	%	1,9
Tensile modulus	ISO 527	-	GPa	14
Impact strength	ISO 179	Charpy	kJ/m ²	45

Thermal properties	Test method	Test environment	Unit	Value
Service temperature	- -	continuous	°C	230
Service temperature	- -	short term	°C	260
Melting point	DIN 53736	-	°C	280
Coefficient of linear thermal expansion	ASTM D696	23-100 °C	10 ⁻⁵ K ⁻¹	3,0

Electrical properties	Test method	Test environment	Unit	Value
Dielectric constant	DIN 53483	ε, 1 MHz	-	4
Loss factor	DIN 53483	tan δ, 1 MHz	-	0,004
Surface resistivity	DIN 53482	-	ohm	10 ¹⁵

Other properties	Test method	Test environment	Unit	Value
Density	ISO 1183	-	g/cm ³	1,65
Water absorption	DIN 53715	equilibrium, 23 °C, RH 50%	%	0,02
Flammability	UL 94	0,8 mm	-	V0

The data presented are taken from our suppliers and represent our best knowledge. The values are given in good faith. They should not constitute the basis for calculations, construction etc. The responsibility for verifying material data rests with the end-user.