

## PTFE GF25, with 25% glass fibre

Mechanical properties	Test method	Test environment	Unit	Value
Tensile strength	ASTM D638	-	MPa	16
Tensile strain	ASTM D638	break	%	260
Compression strength	ASTM D695	1% deformation	MPa	8,2
Creep	--	14 MPa, 100 h	%	14
Impact strength	ASTM D256	Izod, unnotched, 23 °C	J/m	120
Hardness	ASTM D2240	-	Shore D	63
Coefficient of friction	ASTM 1849	P=0,1 MPa, v=1,0 m/s, R <sub>a</sub> =0,5 µm	-	0,07
Wear	--	K*10 <sup>-8</sup>	cm <sup>3</sup> min/kg,m,h	7,1
PV-limit	--	0,05 m/s	Nm/mm <sup>2</sup> ,s	0,365
PV-limit	--	0,50 m/s	Nm/mm <sup>2</sup> ,s	0,475
PV-limit	--	5,00 m/s	Nm/mm <sup>2</sup> ,s	0,590

Thermal properties	Test method	Test environment	Unit	Value
Coefficient of linear thermal expansion	ASTM D696	23-100 °C, parallel	10 <sup>-5</sup> K <sup>-1</sup>	10
Coefficient of linear thermal expansion	ASTM D696	23-100 °C, perpendicular	10 <sup>-5</sup> K <sup>-1</sup>	7,5
Coefficient of linear thermal expansion	ASTM D696	23-200 °C, parallel	10 <sup>-5</sup> K <sup>-1</sup>	12,5
Coefficient of linear thermal expansion	ASTM D696	23-200 °C, perpendicular	10 <sup>-5</sup> K <sup>-1</sup>	9,5
Thermal conductivity	ASTM C177	-	W/m,K	0,43

Electrical properties	Test method	Test environment	Unit	Value
Dielectric constant	ASTM D150	ε, 1 GHz	-	2,5
Loss factor	ASTM D150	tan δ, 1 GHz	-	0,003
Volume resistivity	ASTM D257	-	ohm cm	10 <sup>16</sup>
Surface resistivity	ASTM D257	-	ohm	10 <sup>16</sup>

Other properties	Test method	Test environment	Unit	Value
Density	--	-	g/cm <sup>3</sup>	2,23

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.