

Data Sheet PTFE + 25% glass fiber				
Parameter	Unit	Testing method	Test specimen	Required values
Mechanical Properties, measured at 23°C on sintered specimens				
Density	g/cm ³	DIN 53479		2,24 ± 0,03
Tensile strength	N/mm ²	DIN 53455	Specimen thickness 1,0 mm	> 13
Elongation at break	%	DIN 53455	Specimen thickness 1,0 mm	> 175
Ball indentation hardness	N/mm ²	DIN 53456	Platelets, 4 mm thick	> 32
Shore-hardness D		DIN 53505	Platelets, 6 mm thick	> 58
Deformation under load (15 N/mm ²)	%	Similar to ASTM D 621	Cylinder 10 mm Ø x 10 mm	15 ± 1
Tensile modulus	N/mm ²	DIN 53457		> 700
Thermal properties				
Thermal conductivity	W/m·K	DIN 52612		0,38
Coefficient of linear expansion ¹⁾ (Parallel to pressing direction)	K ⁻¹	DIN 53752	30 -100 °C 30 - 200 °C 30 - 260 °C	10 · 10 ⁻⁵ 13 · 10 ⁻⁵ 17 · 10 ⁻⁵
Coefficient of linear expansion ¹⁾ (crosswise to pressing direction)	K ⁻¹	DIN 53752	30 -100 °C 30 - 200 °C 30 - 260 °C	7,5 · 10 ⁻⁵ 10,5 · 10 ⁻⁵ 12,5 · 10 ⁻⁵
Electrical properties, measured at 23°C				
Electrical strength	kV/mm	DIN 53481 VDE 0303 part 2	Film, 100 µm thick Film, 200 µm thick	--- ---
Volume resistivity	Ohm·cm	DIN VDE 0303 part 30 IEC93		10 ¹⁶
Surface resistance	Ohm	DIN VDE 0303 part 30 IEC93		10 ¹⁶

¹⁾ measured with dilatometer 2°C/min