

Data Sheet PTFE + 25% ceramics				
Parameter	Unit	Testing method	Test specimen	Required values
Mechanical Properties, measured at 23°C on sintered specimens				
Density	g/cm ³	DIN 53479		2,26 ± 0,03
Tensile strength	N/mm ²	DIN 53455	Specimen thickness 1,0 mm	15
Elongation at break	%	DIN 53455	Specimen thickness 1,0 mm	180
Ball indentation hardness	N/mm ²	DIN 53456	Platelets, 4 mm thick	---
Shore-hardness D		DIN 53505	Platelets, 6 mm thick	62-66
Deformation under load (15 N/mm ²)	%	Similar to ASTM D 621	Cylinder 10 mm Ø x 10 mm	---
Tensile modulus	N/mm ²	DIN 53457		---
Thermal properties				
Sintering temperature	°C			380
Coefficient of linear expansion ¹⁾ (Parallel to pressing direction)	K ⁻¹	DIN 53752	30 -100 °C 30 - 200 °C 30 - 260 °C	9 · 10 ⁻⁵ 10 · 10 ⁻⁵ 12 · 10 ⁻⁵
Coefficient of linear expansion ¹⁾ (crosswise to pressing direction)	K ⁻¹	DIN 53752	30 -100 °C 30 - 200 °C 30 - 260 °C	--- --- ---
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		---
Surface resistance	Ohm	DIN VDE 0303 part 30 IEC93		---

¹⁾ measured with dilatometer 2°C/min