

Data Sheet PTFE + 25% EKONOL				
Parameter	Unit	Testing method	Test specimen	Required values
Mechanical Properties, measured at 23°C on sintered specimens				
Density	g/cm ³	DIN 53479		1,89 ± 0,03
Tensile strength	N/mm ²	DIN 53455	Specimen thickness 1,0 mm	> 12
Elongation at break	%	DIN 53455	Specimen thickness 1,0 mm	> 130
Ball indentation hardness	N/mm ²	DIN 53456	Platelets, 4 mm thick	---
Shore-hardness D		DIN 53505	Platelets, 6 mm thick	64 ± 4
Deformation under load (15 N/mm ² , 100 h)	%	Similar to ASTM D 621	Cylinder 10 mm Ø x 10 mm	---
Tensile modulus	N/mm ²	DIN 53457		---
Thermal properties				
Thermal conductivity	W/m·K	DIN 52612		---
Coefficient of linear expansion ¹⁾ (Parallel 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