Data Sheet PTFE + 10% carbon fiber				
Parameter	Unit	Testing method	Test specimen	Required values
Mechanical Properties, measured at 23°C on sintered specimens				
Density	g/cm³	DIN 53479		2,10 ± 0,05
Tensile strength	N/mm²	DIN 53455	Specimen thickness 1,0 mm	> 16
Elongation at break	%	DIN 53455	Specimen thickness 1,0 mm	> 180
Ball indentation hardness	N/mm²	DIN 53456	Platelets, 4 mm thick	---
Shore-hardness D		DIN 53505	Platelets, 6 mm thick	> 60
Deformation under load (15 N/mm², 100 h)	%	Similar to ASTM D 621	Cylinder 10 mm Ø x 10 mm	---
Tensile modulus	N/mm²	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

Note:
The above mentioned %-shares of the individual components are weight-%.
The margin of the entire mixing ratio of one batch (charge) is ± 1,0 %.
Due to the very different, specific weights of the PTFE's and the added fillers, variations up to ± 3,5 % within one charge are possible.