

Technical data sheet

PTFE + 25% carbon

General properties				
Material designation	PTFE + 25% carbon			
Material colour(s)	black (6000)			
Raw material	PTFE Polytetrafluoroethylene			
Molecular weight (Average molar mass)	-			
Mechanical properties		Unit	Test method	Value
Density	g/cm ³	DIN EN ISO 1183	2,05	
Tensile strength	MPa	DIN EN ISO 527	-	
Shore D hardness, 15s - Value	Skala D	DIN EN ISO 868	64 - 67	
Ball indentation hardness, 30s - Value	MPa	DIN ISO 2039 Teil 1	37	
Ultimate tensile strength	MPa	DIN EN ISO 527	13	
Elongation at break	%	DIN EN ISO 527	> 120	
Modulus of elasticity	MPa	DIN EN ISO 527	1500	
Notched impact strength (Charpy)	kJ/m ²	DIN EN ISO 179	12	
Wear resistance	%	Sand Slurry method	-	
Coefficient of friction (to steel)	μ	-	0,14	
Thermal properties		Unit	Test method	Value
Dimensional stability under heat	°C	DIN 53461	-	
Vicat softening temperature	°C	DIN EN ISO 306	-	
Crystalline melting range	°C	DIN EN ISO 11357	-	
Thermal conductivity at 23°C	W / (K * m)	DIN 52612	0,70	
Specific heat at 23°C	kJ / (K * Kg)	-	-	
Coefficient of linear expansion at 23°C	10 ⁻⁵ * (1/K)	DIN ISO 11359	11	
Fire behaviour	-	UL 94	V-0	
Application temperature (min.)	°C	-	- 200	
Application temperature (constant)	°C	-	+ 260	
Moisture absorption	%	-	< 0,01	
Electrical properties		Unit	Test method	Value
Specific volume resistance	Ω * cm	IEC 60093	10 ³	
Specific surface resistance	Ω	IEC 60093	10 ³	
Dielectric strength	KV/mm	IEC 60243	2,8	
Conformity with food secure regulations				
FDA	-			
EU	-			

Our employees are available to answer all of your questions.

You can find additional information on our material qualities on the internet at www.wefapress.com/en/materials.

All stated information reflects our current knowledge. No agreement or guarantee regarding specific characteristics can be derived from the information contained in the datasheets. Each user is responsible for deciding on the suitability of a material for a specific purpose. The data supplied are subject to change.

The materials labelled as a "Food Secure Product" (FSP) comply with the provisions of Regulations (EU) No. 10/2011 and No. 1935/2004.