



PCTFE standard values

Properties	Unit	PCTFE
Injection moulding and extrusion temperature	°C	+260 to +290
max.continuous operating temperature without load	°C	+170 to +180
Embrittlement below	°C	-40
Crystallite melting point	°C	+180 to +220
Apparent density	g/cm ³	2,07 to 2,12
Tear resistance	N/mm ²	30 to 40
Elongation at break	%	20
E-modulus (tensile)	N/mm ²	1300
Limiting flexural stress	N/mm ²	55 to 67
Notched impact strength (20°C)	kJ/m ²	8 to 9
Impact Strength/Izod		
at +20 °C	J/m	160 to 270
at -57 °C	J/m	-
Shore hardness D		73 to 79
Linear coefficient of thermal expansion at 20 - 100°C	10 ⁻⁵ * K-1	5
Thermal conductivity at +20 °C	W/mK	0,26
Oxygen index	Vol.-% O ₂	94
Specific insulation resistance	Ohm x cm	10 ¹⁵
Surface resistance	Ohm	10 ¹⁵
Water absorption		
Comparison values - 24 h	%	0,00
Swelling agents		some chlorinated hydrocarbons
Chemical corrosion by		refer to PTFE