

TECHNICAL DATA SHEET
PTFE G405
25% glass fiber filled PTFE

Properties	Unit	Method	Data - Moulded
PHYSICAL - MECHANICAL			
Density	g/cm ³	ASTM D792	2,20 - 2,26
Hardness - Shore D	/	ASTM D2240	≥ 60
Tensile Strength - CD	N/mm ²	ISO 12086 ISO 527	≥ 17
Elongation at break - CD	%	ISO 12086 ISO 527	≥ 230
Compressive strength at 1% deformation - CD	N/mm ²	ASTM D695	8 - 9
Deformation under load at room temperature 24 Hours at 13,7 N/mm ² - CD	%	ASTM D621	≤ 10
Permanent deformation as above after releasing of 24 hours at room temperature - CD	%	ASTM D621	≤ 6,5
TRIBOLOGICAL			
Dynamic coefficient of friction	/	ASTM D1894 ASTM D3702	0,15 - 0,3
Wear factor	/	ASTM D3702	0,015 - 0,030
THERMAL			
Service Temperature (min - max)	°C	/	- 200 / + 260
Thermal expansion coefficient (linear) 25 - 100°C	10 ⁻⁵ (mm/mm)/ °C	Similar to ASTM D696	7,5 - 11
ELECTRICAL			
Volume Resistivity	Ω • cm	ASTM D257	> 10 ¹⁵
Surface Resistivity	Ω	ASTM D257	> 10 ¹⁵

CD = cross direction

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice. Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

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