

TECHNICAL DATA SHEET

PTFE GF25 / G405

Source data: 12 May 2004

MATERIAL

PTFE GF25

MODIFICATION

G405, moulded

COLOUR

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Property	Unit	Test method	Reference value
Physical - mechanical properties			
Density	g/cm ³	ASTM D792	2.23 - 2.25
Hardness - Shore D	points	ASTM D2240	62 - 67
Tensile strength	N/mm ²	ASTM D4745	14 - 21
Elongation at break	%	ASTM D4745	230 - 270
Compressive strength at 1 % deformation	N/mm ²	ASTM D695	8 - 9
Deformation under load, 24 h at 13.7 N/mm ²	%	ASTM D621	7 - 10
Permanent deformation after release, 24 h	%	ASTM D621	4 - 6.5
Coefficient of friction (dynamic)	-	ASTM D1894	0.13
Wear factor (K)	cm ³ ·min·10 ⁻⁸ /(kg·m·h)	ASTM D3702	10 - 15
Thermal properties			
Service temperature (min. - max.)	°C	-	-200/+260
Linear thermal expansion coefficient (25 - 100 °C)	10 ⁻⁵ /°C	ASTM D696	7.5 - 11
Electrical properties			
Volume resistivity	Ω·cm	ASTM D256	10¹⁶
Surface resistivity	Ω	ASTM D256	10¹⁶

NOTES ON USE

The values are based on laboratory testing and are intended as useful guidance for technical design. Deviations may occur and do not in themselves constitute a loss of quality or a reason for rejection.