

TECHNICAL DATA SHEET

PTFE G418

15% glass fiber + 5% MoS2 filled PTFE

Properties	Unit	Method	Data - Moulded
PHYSICAL - MECHANICAL			
Density	g/cm ³	ASTM D792	2,20 - 2,30
Hardness - Shore D	/	ASTM D2240	≥ 55
Tensile Strength - CD	N/mm ²	ISO 12086 ISO 527	≥ 18
Elongation at break - CD	%	ISO 12086 ISO 527	≥ 230
Compressive strength at 1% deformation - CD	N/mm ²	ASTM D695	≥ 8
Deformation under load at room temperature 24 hours at 13,7 N/mm ² - CD	%	ASTM D621	≤ 8
Permanent deformation as above after releasing of 24 hours at room temperature - CD	%	ASTM D621	≤ 4
TRIBOLOGICAL			
Dynamic coefficient of friction	/	ASTM D1894 ASTM D3702	0,08 - 0,18
Wear factor K	/	ASTM D3702	0,015 - 0,021
THERMAL			
Service Temperature (min - max)	°C	/	- 200 / + 260
Coefficient of Linear Expansion (25° - 100°C)	10 ⁻⁵ (mm/mm)/ °C	Similar to ASTM D696	9 - 12

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.

REV. 04

April 2011



GUARNIFLON SPA
 (Società Socio Unico soggetta all'attività di direzione e coordinamento ex art. 2497 bis C.C. da parte di Mazza Holding srl)
 Via T. Tasso n. 12 - 24060 Castelli Calepio (BG) ITALY
 VAT N° IT 01406020162
 C.F. 01406020162
 REG.IMPRESSE DI BG - REA N. 203233
 CAPITALE SOCIALE € 10.000.000 interamente versato

PTFE Products Division

Phone +39.035.4494311
 Domestic Dept. Fax +39.035.4425191
 Export Dept. Fax +39.035.4425238

PTFE Finished and Semifinished products
<http://www.guarniflon.com> - info@guarniflon.com
 Accounting Dept. fax +39.035.4425249



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