YOUR CHOICE FOR FLUOROBASED PRODUCTS

GUARNIFLON®

TECHNICAL DATA SHEET

PTFE G416

40% bronze + 2% carbon filled PTFE

Properties	Unit	Method	Data - Moulded
PHYSICAL - MECHANICAL			
Density	g/cm^3	ASTM D792	**2,98 - 3,16**
Hardness - Shore D	/	ASTM D2240	**≥ 58**
Tensile Strength - CD	N/mm^2	ISO 12086 ISO 527	**≥ 20**
Elongation at break - CD	%	ISO 12086 ISO 527	**≥ 220**
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	**≤ 5**
TRIBOLOGICAL			
Dynamic coefficient of friction-PV = 0,7 N/mm^2 • m/s	/	ASTM D3702	**0,15 - 0,25**
Wear factor (K) - PV = 0,7 N/mm2 · m/s	µm/h•N/mm2 •m•min	ASTM D3702	**0,010 - 0,030**
THERMAL			
Service Temperature (min - max)	°C	/	**- 200 / + 260**
Coefficient of Linear Expansion (25° - 100°C)	10^{-5}(mm/mm)/ °C	Similar to ASTM D696	**8 - 11**
ELECTRICAL			
Surface Resistivity	Ω	ASTM D257	**> 10^{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.

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Guarniflon S.p.A.
PTFE Products Division
Via T.Tasso 12 - 24060 Castelli Calepio (BG) IT
Phone +39.035.4494311
Domestic Dept. Fax +39.035.4425191
Export Dept. Fax +39.035.4425238

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PTFE Finished and Semifinished Products
http://www.guarniflon.com | info@guarniflon.com
Accounting Dept. Fax +39.035.4425249