

## PTFE G405 – MOULDED GLASS FILLED PTFE

Largely used in many different industrial applications, the addition of glass improves compressive properties and enhances wear, deformation and abrasion resistance. Added in various percentages increases the rigidity whilst reducing creep and cold flow without compromising chemical and electrical properties.

### Applications

Bushings, sliding pads for mechanical applications in general. Valve seats, seals, bearings required to resist sliding and chemicals.



TYPICAL PROPERTIES	UNIT	METHOD	DATA - MOULDED
<b>PHYSICAL - MECHANICAL</b>			
Density	g/cm <sup>3</sup>	ASTM D792	2,20 – 2,26
Hardness – Shore D	/	ASTM D2240	≥ 58
Tensile Strength – CD*	N/mm <sup>2</sup>	ISO 527 v = 50mm/min microtensile die	≥ 17
Elongation at Break – CD*	%	ISO 527 v = 50mm/min microtensile die	≥ 230
Compressive Strength at 1% Deformation – CD*	N/mm <sup>2</sup>	ASTM D695	8 - 9
Deformation under Load at Room Temperature After 24 Hours at 13,7 N/mm <sup>2</sup> – CD*	%	ASTM D621	≤ 10
Permanent Deformation Under Load After 24 Hours of Rest at Room Temperature – CD*	%	ASTM D621	≤ 6,5
<b>TRIBOLOGICAL</b>			
Dynamic Coefficient of Friction	/	ASTM D1894 ASTM D3702	0,15 – 0,3
Wear Factor K	/	ASTM D3702	0,015 – 0,030
<b>THERMAL</b>			
Service Temperature (Min-Max)	°C	/	- 200 / + 260
Thermal Expansion Coefficient (Linear) 25 – 100°C	10 <sup>-5</sup> (mm/mm)/°C	Similar to ASTM D696	7,5 - 11
<b>ELECTRICAL</b>			
Volume Resistivity	Ω • cm	ASTM D257	> 10 <sup>15</sup>
Surface Resistivity	Ω	ASTM D257	> 10 <sup>15</sup>
*CD=Cross Direction			

Note: the data listed herein fall within the normal range of product properties described, but they should not be used to establish specification limits nor used alone as the basis of design. Guarniflon® Spa assumes no obligation or liability for any advice furnished by it or for results obtained to these products.



**GUARNIFLON SPA**  
 (Società Socio Unico Soggetta all'attività di direzione e coordinamento  
 ex art.2497 bis C.C. da parte di Mazza Holding srl)

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