



MATERIAL SPECIFICATION
(TYPICAL PROPERTIES)

PRODUCT: **PTFE + 15% glass fibers**

<u>Property</u>	<u>Method</u>	<u>Units</u>	<u>Specification</u>
Specific gravity	ASTM D4884	g/ cm ³	2,200 - 2,240
Tensile strenght	ASTM D4894	MPa	≥18
Elongation	ASTM D4894	%	≥200
Hardness	ASTM D2240	Shore D	≥58
Deformation under load (14N/mm ² , 24 h at 23° C.)	ASTM D621	%	11 - 13
Permanent deformation (after 24 hrs. Relaxation at 23° C)	ASTM D621	%	5,5 - 6,5
Coefficient of linear Thermal expansion	ASTM D696	10 ⁻⁵ /°C	
da 25 a 100°C			8,9 - 12,7
da 25 a 150°C			10,2 - 13,6
da 25 a 200°C			11,5 - 14,2
da 25 a 250°C			13,5 - 15,6
Coefficient of static friction	ASTM D1894		0,18 - 0,20
Coefficient of dynamic friction	ASTM D1894		0,11 - 0,13
Volume Resistivity	ASTM D257	Ohm cm	10 ¹⁵
Service Temperature		C°	-200 / +260

Properties:

Improved compression and wear resistance; excellent chemical stability. Better thermal conductivity and coefficient of friction when combined Mos2 or Graphite.

Main applications:

It is the most commonly used filler for dynamic seal applications where both rotating and alternating movements are involved, pneumatic, hydraulic and mechanical part.

Statement on suitability for contact with foodstuff:

We certify that all our 15% Glass filled molded and extruded semifinished products, made of 15GL, can come in contact with foodstuff, as per the following requirement:

USA regulations (FDA, Food and Drug Administration, Department of Health and Human Services; Code of Federal Regulations 21 CFR Ch. 1 § 177.1550 8a) (1) and (b)-Perfluorocarbon Resins.

The user must verify that the finished item, made of the semifinished product, would be technically suitable for the requested application. The user must also verify that the finished item may not cause any modification to the organoleptic properties of the foodstuff and that the item's technological fitness it is assigned to, may be guaranteed.

For each foreign country market, where the articles are introduced into, it is responsibility of the user to determine whether both material than articles would comply with the applicable laws and regulations.