



MATERIAL SPECIFICATION (TYPICAL PROPERTIES)

PRODUCT: PTFE + 25% CARBON

75% +/- 1% virgin ptfе

23% +/- 1% carbon

2% +/- 1 % graphite

<u>Property</u>	<u>Method</u>	<u>Units</u>	<u>Specification</u>
Specific gravity	ASTM D792	-	2,050 – 2,120
Tensile strenght	ASTM D4894	MPa	13 - 18
Elongation	ASTM D4894	%	60 - 120
Hardness	ASTM D2240	Shore D	62 – 66
Deformation under load (140 Kg/cm ² for 24 hrs. At 23° C)	ASTM D695	%	6 – 7
Permanent deformation (after 24 hrs. Relaxation at 23° C)	ASTM D695	%	3 – 4
Service Temperature		C°	-200 / +260
Ageing and weatherability			Stable over 20 years of exposure
Radiations resistance (gamma rays) low:			Electrical properties unchanged Mechanical properties decreased
Volume resistivity	ASTM D257	Ohm cm	10 ⁴

Outstanding properties:

Excellent compression and wear resistance; good thermal conductivity, low permeability; improved coefficient of thermal expansion when combined with ceramic.

All technical information and advice are based on our experience and are to the best of our knowledge, but do not state any liability by our company. Specifications and values must always be checked by the customers, for they are the only ones that can judge the efficiency of a product taking into account all of the one site operating conditions.