

MATERIAL SPECIFICATION

(TYPICAL PROPERTIES)

PRODUCT: PTFE +25% CARBON

23% Carbon 2% Graphite 75% Virgin ptfe

Property	Method	<u>Units</u>	Specification
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/cmq for 24 hrs. At 23° C)	ASTM D695	%	5 – 7
Permanent deformation (after 24 hrs. Relaxation at 23° C)	ASTM D695	%	2 – 4
Coefficient of static friction			0.14 - 0.16
Coefficient of dynamic friction			0.12 - 0.14
Volume resistivity	ASTM D257	Ohm cm	10 4
Service Temperature		C°	-200 / +260

Outstanding properties:

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

Main applications:

Widely used in seal applications where high wear resistance is required under high compression (eg. piston rings for dry compressors, bearings, grooved mechanical support).