

TECHNICAL DATA SHEET

15% Carbon

(85% Virgin PTFE + 15% Carbon coke)

Property	Method	Units	Specification
Physical			
Color	-	-	Black
Specific gravity	ASTM D792	g/cm ³	2.100 – 2.160
Mechanical			
Tensile strength	ASTM D4894	MPa	≥ 14
Elongation	ASTM D4894	%	≥ 150
Hardness	ASTM D2240	Shore D	≥ 62
Compression strength at 1% deformation		MPa	≥ 9
Deformation under load (140 Kg/cm ² for 24 hrs At 23 °C)	ASTM D621	%	7 - 9
Permanent deformation (after 24 hrs. Relaxation at 23 °C)	ASTM D621	%	2 – 4
Coefficient of static friction			0.14 – 0.15
Coefficient of dynamic friction			0.10 – 0.11
Ageing and weatherability		Stable over 20 years of exposure	
Thermal			
Coefficient of linear thermal expansion from 25 to 100 °C	ASTM D696	10 ⁻⁵ /°C	10 – 11.5
Service Temperature		°C	-200 / +260
Electrical			
Volume resistivity	ASTM D257	Ohm.cm	10 ⁷
Radiations resistance (gamma rays)		Electrical properties unchanged, mechanical properties decreased	

