



Carbo - Graphite PTFE

Polytetrafluoroethylene

25% Carbo-graphite

Standard Colour: **Grey**

Moulded

Properties	Unit	Test method	Value
Hardness	Shore D	ASTM D2240	≥ 62
Density	g/cm ²	ASTM D792	2.05 – 2.11
Elongation at break – CD*	%	ISO527	≥ 75
Tensile strength – CD*	N/mm ²	ISO527	≥ 14
Compressive strength at 1% deformation – CD*	N/mm ²	ASTM D695	≥ 7
Deformation under load at room temperature after 24h at 13.7 N/mm ² – CD*	%	ASTM D621	≤ 7
Permanent deformation as above after 24h of rest at room temperature – CD*	%	ASTM D621	≤ 5
*CD = Cross Direction			
Tribological			
Dynamic coefficient of friction		ASTM D1894 ASTM D3702	0.12 – 0.15
Wear factor K		ASTM D3702	0.010 – 0.020
Thermal			
Min service temperature	°C		-200
Max service temperature	°C		+260
Thermal expansion coefficient (linear) 25 – 100°C	10 ⁻⁵ (mm/mm)/°C	Similar to ASTM D696	10 – 12
Electrical			
Volume resistivity	Ω•cm	ASTM D257	<10 ⁴
Surface resistivity	Ω	ASTM D257	<10 ⁴

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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