



MAIN FEATURES

- High chemical resistance
- Good lubricating effect
- Low friction coefficient
- Excellent thermal stability

COLOUR Anthracite

PROPERTIES

	Typical value	Units	Test method
DENSITY	2.14 – 2.17	g/cm ³	ASTM D1457 DIN 53479
WATER ABSORPTION (MAX.)	0.01	%	ASTM D-570
HARDNESS	60 - 62	Shore D	ASTM D2240

MECHANICAL PROPERTIES

	Typical value	Units	Test method
TENSILE STRENGTH	14 - 24	N/mm ²	ASTM D1457 DIN 53455
ELONGATION AT BREAK	150 - 290	%	ASTM D1457 DIN 53455
IMPACT STRENGTH	0.8 – 0.9	J/cm	ASTM D256
COMPRESSIVE STRENGTH WITH 1% DEFORMATION	6	N/mm ²	ASTM D695
DEFORMATION UNDER LOAD AT AMBIENT TEMPERATURE AFTER 24H AT 13,7 N/MM ²	9.6	%	ASTM D621
PERMANENT DEFORMATION (AS ABOVE AND AFTER 24H OF REST)	5.5	%	ASTM D621
DEFORMATION UNDER LOAD AT 260°C AFTER 24H AT 4,1 N/MM ²	19	%	ASTM D621
PERMANENT DEFORMATION (AS ABOVE AND AFTER 24H OF REST)	14.4	%	ASTM D621
DYNAMIC FRICTION COEFFICIENT	0.065	-	
FACTOR OF WEAR "K"	50	$\frac{\text{cm}^3 \times \text{min}}{\text{kg} \times \text{m} \times \text{h}} \times 10^{-8}$	
DIELECTRIC STRENGTH	1 - 2	Kv/mm	ASTM D-149



THERMAL PROPERTIES

	Typical value	Units	Test method
COEFFICIENT OF LINEAR THERMAL EXPANSION (25-95°C)	13.5	$\frac{10^{-5}}{K}$	ASTM D696
CONTINUOUS SERVICE TEMPERATURE	+260	°C	ASTM D648

AVAILABLE

SEMI-FINISHED PRODUCTS

ROD	At request
TUBE	At request

* Other dimensions can be delivered at request.

We produce customized finished PTFE 15% graphite products according to your specifications.

This can be based on a drawing or model.

Any questions about products or make an enquiry? Simply call +31 180 46 34 71 or send us an e-mail at sales@ridderflex.nl