PTFE 50% STAINLESS STEEL

MAIN FEATURES

- High chemical resistance
- High resistance to wear
- Higher load capacity
- Excellent thermal stability

COLOUR	Grey

PROPERTIES

	Typical value	Units	Test method
DENSITY	3.24 – 3.32	g/cm³	ASTM D1457 DIN 53479
WATER ABSORPTION (MAX.)	0	%	ASTM D-570
HARDNESS	68 - 71	Shore D	ASTM D2240

MECHANICAL PROPERTIES

	Typical value	Units	Test method
TENSILE STRENGHT	13 - 22	N/mm²	ASTM D1457 DIN 53455
ELONGATION AT BREAK	120 - 260	%	ASTM D1457 DIN 53455
IMPACT STRENGHT	N.A.	J/cm	ASTM D256
COMPRESSIVE STRENGHT WITH 1% DEFORMATION	15	N/mm²	ASTM D695
DEFORMATION UNDER LOAD AT AMBIENT TEMPERATURE AFTER 24H AT 13,7 N/MM²	4.9	%	ASTM D621
PERMANENT DEFORMATION (AS ABOVE AND AFTER 24H OF REST)	2.4	%	ASTM D621
DEFORMATION UNDER LOAD AT 260°C AFTER 24H AT 4,1 N/MM²	N.A.	%	ASTM D621
PERMANENT DEFORMATION (AS ABOVE AND AFTER 24H OF REST)	N.A.	%	ASTM D621
DYNAMIC FRICTION COEFFICIENT	0.15	-	
FACTOR OF WEAR "K"	8.8	$\frac{cm^3 \times min}{kg \times m \times h} \times 10^{-8}$	
DIELECTRIC STRENGHT	N.A.	Kv/mm	ASTM D-149

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THERMAL PROPERTIES

	Typical value	Units	Test method
COEFFICIENT OF LINEAR THERMAL EXPANSION (25-95°C)	9	$\frac{10^{-5}}{K}$	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 50% stainless steel 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