

MAIN FEATURES

- High chemical resistance
- Very low gas permeation and outgassing
- Non-flammable
- Low deformation under load
- High compressive strength
- Near zero moisture absorption
- Dimensionally stable, rigid and resistant to cold flow

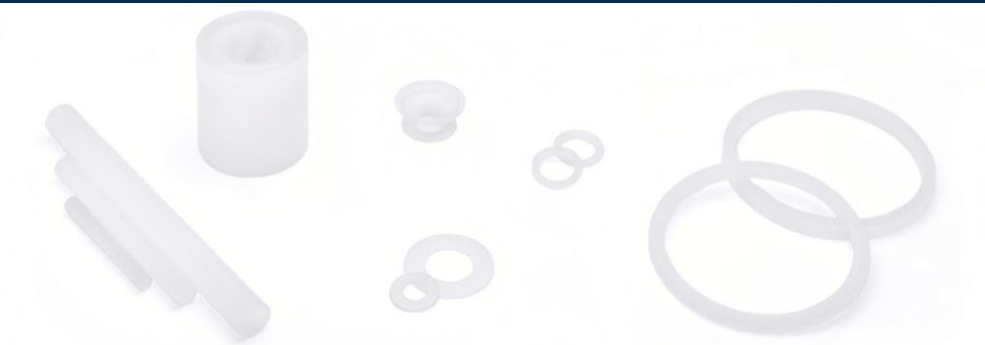
COLOUR Translucent white

PROPERTIES

	Typical value	Units	Test method
DENSITY	2,1 – 2,16	g/cm ³	ISO 12086
WATER ABSORPTION (MAX.)	0	%	DIN 53495
HARDNESS	72-80	Shore D	DIN 53505

MECHANICAL PROPERTIES

	Typical value	Units	Test method
TENSILE STRENGTH (23°C)	32-40	N/mm ²	DIN 53455
TENSILE MODULUS (23°C)	1000-2000	N/mm ²	DIN 53457
ELONGATION AT BREAK (23°C)	30-120	%	DIN 53455
COMPRESSIVE STRENGTH AT 0,2% OFFSET	36-41	Mpa	ASTM D695
COMPRESSIVE STRENGTH AT 1% STRAIN	41579	Mpa	ASTM D695
COMPRESSION MODULUS OF ELASTICITY	(1.2-1.4)x10 ³	Mpa	ASTM D695
IMPACT STRENGTH	133-144	J/m	ASTM D265
FLEXURAL STRENGTH	66-71	Mpa	ASTM D790
FLEXURAL MODULUS ELASTICITY	(1.4-1.7)x10 ³	Mpa	ASTM D790
DEFORMATION UNDER LOAD, 25°C, 24HRS/70KG	≤0.2	%	ASTM D621



THERMAL PROPERTIES

	Typical value	Units	Test method
MELTING POINT	210-212	°C	ASTM D1430
MAXIMUM SERVICE TEMPERATURE	193	°C	
THERMAL CONDUCTIVITY	0.21	W/m-K	C-177
DEFLECTION TEMPERATURE (66 PSI)	126	°C	D648
THERMAL EXPANSION (+30°C TO -30°C)	7.0x10 ⁻⁵	cm/cm/°C	D696
THERMAL EXPANSION (-30°C TO -100°C)	5.1x10 ⁻⁵	cm/cm/°C	D696
THERMAL EXPANSION (-100°C TO -190°C)	3.6-10 ⁻⁵	cm/cm/°C	D696

AVAILABLE

SEMI-FINISHED PRODUCTS

SHEETING	At request
ROD	Ø 13 to Ø 80 mm*
TUBE	At request

* Other dimensions can be delivered at request.

We produce customized finished PCTFE 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