DATA SHEET

Solid PTFE
YG- S-PTFE

INTODUCTION

Yorkshire Gaskets Grade YG-S-PTFE is a Standard Grade Virgin PTFE for Ram Extrusion, Compression and Isostatic moulding.

- ✓ Good mechanical properties
- ✓ Excellent chemical resistance
- ✓ Exceptional temperature resistance
- ✓ Excellent electrical insulating properties
- ✓ UV resistance
- ✓ Extremely non-adhesive
- ✓ Suitable for food contact

Physical	Color	-	-	White
	Specific gravity	ASTM D792	g/cm^3	2,130 – 2,190
	Water absorption	ASTM D570	%	0,01

Mechanical	Tensile strength	ASTM D4894	MPa	≥ 20
	Elongation	ASTM D4894	%	≥ 200
	Hardness	ASTM D2240	Shore D	≥ 54
	Ball Hardness	ASTM D785	MPa	≥ 23
	Compression strength at 1% deformation	ASTM D695	MPa	≥ 4
	Deformation under load (140 Kg/cm^2 for 24 hrs. At 23°C)	ASTM D621	%	10 – 13
	Permanent deformation (after 24 hrs. Relaxation at 23°C)	ASTM D621	%	6 – 7,5
	Coefficient of static friction	ASTM D1894		0,08 – 0,10
	Coefficient of dynamic friction	ASTM D1894		0,06 – 0,08
	Wear factor K	ASTM D3702		2.900
	Wear coefficient	cm^3 min 10-8 Kg m h		20000 - 25000

Thermal	Thermal conductivity	ASTM C177	W/m·K	0,34
	Coefficient of linear thermal expansion From 25 to 100 °C	ASTM D696	10^{-5}/ °C	12 - 15

Electrical	Dielectric strength	ASTM D149	kV/mm	≥ 30
	Dielectric Costant	DIN 53483	-	2,1
	Volume resistivity	ASTM D257	Ohm.cm	1018
	Surface resistivity	ASTM D257	Ohm	1017

The information given is based upon average values and is in no way intended as a warranty. The purchaser shall be responsible for determining the suitability of the product for any particular application.

Yorkshire Gaskets Ltd

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UKAS MANAGEMENT SYSTEMS

CERTIFICATE NO. 14235
ISO9001

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