Thomson
FLUOROLON™ 7545

Microcellular PTFE with high compressibility for non-metallic flanges and where reduced bolt load is available.

FEATURES / BENEFITS

- Soft, compressible outer microcellular layer conforms to flange irregularities.
- Solid PTFE inner core provides rigidity and stability under load.
- Easy to handle and cut.
- Chemically inert providing excellent application versatility.
- Lower gas permeability than Glass-filled PTFE materials resulting in greater sealability.
- FDA Compliant: complies with FDA regulation 21CFR177.1550.

TYPICAL APPLICATIONS

- Service in strong acids, strong caustics, chlorine, hydrocarbons and cryogenics.
- Non-metallic flanges such as FRP and glass lined piping.
- Pulp and Paper, Food Processing, Pharmaceutical, Chemical Process industries.

"M & Y" FACTORS

Thickness		"m"	"y"
in	mm	(no units)	psi
1/16	1.6	1.4	1595
1/8	3.2	2	1600

SPECIFICATIONS

Construction:
Microcellular PTFE / Rigid PTFE core.

Temperatures:
Minimum: -450°F (-268°C)
Maximum: +500°F (+260°C)

Pressure, max: 1200 psi (83 bar)

Tensile Strength: 1600 psi

Color: White with Grey branding.

pH Range: 0–14

Not compatible with elemental fluorine and molten alkali metals. For specific media fluid compatibility please contact A.R. Thomson Group Engineering Department.

See reverse for technical data.

TECHNICAL DATA - FLUOROLON™ 7545

Physical Properties

TEST METHOD	TYPICAL PHYSICAL PROPERTIES		
ASTM F36	**Compressibility:** %	55	
ASTM F36	**Recovery:** %	24	
ASTM F38	**Creep relaxation:** %	46	
ASTM F152	**Tensile strength:** psi	1600	
ASTM F586	**Design factors:**	**1/16"**	**1/8"**
	"m" factor	1.4	2
	"y" factor, psi	1595	1600

Sealing Characteristics

	DIN 3535-6 NITROGEN
Sealability: ml/min	.01

NOTES

ASTM properties based on 1/32" (0.8 mm) sheet thickness unless otherwise noted. This is a general guide and should not be the sole means of selecting or rejecting this material. Based on ANSI RF flanges at our preferred torque - when approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult A.R. Thomson Group. The data listed here falls within the normal range of product properties but should not be used to establish specification limits nor used alone as the basis of design.

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