

# ARAFLON 4522 VIRGIN PTFE (WHITE) SHEET

A Fluoropolymer product for high resistance to chemicals and weather

PTFE is a soft, low friction fluoropolymer with outstanding chemical and weather resistance. Shows high stability up to 500°F (260°C) and have high dielectric properties. Pure PTFE is extremely soft, formable and it is often used for chemical resistant seals and gasket making. PTFE Rods, Tubes & Tapes (Araflon 4555) are also available in virgin form.

Applications:



## Recommended

Strong acids  
Caustics, Hydrocarbons, Solvents  
Food and Beverage products  
Petrochemical Industry  
Metallic, organic, chemical compounds  
Cryogenic use

## Recommended

Seals & Gaskets  
Valve and fitting components  
Pump Parts, Manifolds  
Semi-conductor equipment  
Chemical resistant Tubing  
Not good with molten Alkali and Fluorine.

## Operating Conditions

Minimum Temperature	(°C/°F)	-200/-328
Maximum Temperature	(°C/°F)	260/500
Pressure	(bar/psi)	55/800

## Physical Properties

Specific Gravity	ASTM D 792	2.14-2.18 g/cm <sup>3</sup>
Hardness Shore D	ASTMD 2240	51 +/-5
Compressibility	ASTM F36	20-25%
Recovery	ASTM F36	45%
Tensile Strength	ASTM F152	24 Mpa
Creep Relaxation	ASTM F38	35%
pH Range		0-14
Dielectric Strength (0.5mm specimen)	ASTM D149	40 KV/mm
m value (3mm thk)		2.5
y value (3mm thk)		2845 psi (19Mpa)

The data we are herewith providing are all based on laboratory testing and are proposed to technical designers as possible and useful advice.

Deviations from the values hereabove indicated may occur, but they do not constitute themselves either detriment of quality or reason for rejection.

