



Innovations in Fluid Sealing



## TECHNICAL DATA SHEET

### INFLON PTFE GASKET SHEET INMARCO TYPE 600

#### Description:

**TYPE 600** is a pure form of PTFE available in various types such as skived sheets, moulded sheets, rods, tubes, rings and custom moulded components. 100% virgin PTFE has excellent inertness to most chemicals. PTFE is not inflammable and highly stable at normal operating temperature of 250°C. It has low friction and high release properties. Easy to machine cut or mould. It has good electrical insulation properties.

#### Operational Parameters:

Properties	Test Method	Unit	Values	
<b>MECHANICAL</b>				
Density	ASTM D 792	gm/cc	2.1 – 2.2	
Tensile Strength	ASTM D 638	kgf/cm <sup>2</sup>	210 – 375	
Elongation @ Break	ASTM D 638	%	250 – 400	
Compressive Strength	ASTM D 695	kgf/cm <sup>2</sup>	40 – 50	
Compressive Modulus	ASTM D 695	kgf/cm <sup>2</sup>	3500 – 4000	
Hardness	ASTM D 2240	Shore D	52 -58	
Continuous service temp. @ atmospheric pressure	ASTM D 648	°C	-250 TO +260	
<b>THERMAL</b>				
Thermal Conductivity (max.)	ASTM D 5930	10 <sup>-1</sup> cal cm S°C	6	
Linear Thermal Expansion (max.)	ASTM D 696	%	Axial	Radial
30 – 150°C			1.5	1.5
30 – 200°C			2.4	2.3
30 – 250°C			3.4	3.6
<b>ELECTRICAL</b>				
Dielectric Strength	ASTM D 149	Kv/mm	22 – 24	
Volume Resistivity	ASTM D 257	ohm cm	>10 <sup>18</sup>	
Surface resistivity	ASTM D 258	ohm	>10 <sup>15</sup>	
Water Absorption (max.)	ASTM D 570	%	0	
<b>CHEMICAL</b>				
Permeability	ASTM D 543	%	0.01	

#### Recommendations:

- ✚ Excellent chemical resistance.
- ✚ Excellent flexural properties.
- ✚ Outstanding electrical properties.

#### Availability:

Sheet size : 1000mm x 1000mm  
: 1500mm x 1500mm

Thickness : 0.5mm, 1mm, 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm

All information and recommendations given in this technical data sheet are correct to the best of our knowledge. However, in view of the wide variety of application and operating conditions one cannot draw the final conclusion in all application cases regarding the behavior of compounds. The above information can only serve as a guideline.

#### INMARCO FZC

P.O. Box 120284, Sharjah Airport International Free Zone (SAIF-Zone), Sharjah, UAE

Tel. No.: +971 6 5578378 Fax No.: +971 6 5578948

Email: [info@inmarco.ae](mailto:info@inmarco.ae) Web.: [www.inmarco.ae](http://www.inmarco.ae)