

Innovations in Fluid Sealing



TECHNICAL DATA SHEET

INFLON CARBON FILLED PTFE SHEET INMARCO TYPE 603

Description:

TYPE 603 is a Virgin PTFE with either 25% - 35% Carbon Filler enhances the creep resistance, hardness and thermal conductivity. They have exceptionally high wear and tear properties and also helps in lubrication when combined with graphite.

Operational Parameters:

Properties	Test Method	Unit	Values	
MECHANICAL				
Density	ASTM D 792	gm/cc	2.0 - 2.14	
Tensile Strength	ASTM D 638	kgf/cm ²	125 - 200	
Elongation @ Break	ASTM D 638	%	125 - 200	
Compressive Strength	ASTM D 695	kgf/cm ²	75 – 85	
Compressive Modulus	ASTM D 695	kgf/cm ²	8000 - 8400	
Hardness	ASTM D 2240	Shore D	60 - 65	
Continuous service temp. @ atmospheric pressure	ASTM D 648	°C	-250 TO +260	
THERMAL				
Thermal Conductivity (max.)	ASTM D 5930	10 ^{x1} cal cm S°C	13	
Linear Thermal Expansion (max.)	ASTM D 696	%	Axial	Radial
30 – 150°C			1.2	1.0
30 – 200°C			1.9	1.5
30 – 250°C			2.7	2.4
ELECTRICAL				
Dielectric Strength	ASTM D 149	Kv/mm	1 – 2	
Volume Resistivity	ASTM D 257	ohm cm	>104	
Surface resistivity	ASTM D 258	ohm	>107	
Water Absorption (max.)	ASTM D 570	%	0	
CHEMICAL				
Permeability	ASTM D 543	%	0.01	

Recommendations:

- High compressive strength.
- Better wear resistance.
- **u** Excellent thermal conductivity.

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

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