



VARINI GUARNIZIONI INDUSTRIALI

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MATERIAL DATASHEET VIRGIN PTFE

GENERAL PROPERTIES

This material contains virgin PTFE, not regenerated, manufactured through molding and subsequent sintering.

The material complies with DIN 28091-3 standards and has the following approvals: FDA 177/1550 title 21; EU 1935/2004; WRC; USP Class VI.

APPLICATIONS

Engineered to demonstrate exceptional chemical resistance to various aggressive agents, except for molten alkaline metals, fluorine, and its derivatives.

It is particularly endorsed for use in chemical, petrochemical, and pharmaceutical industries.

Constant Tightening	1.5mm THK.	2 mm THK.	3mm THK.
γ (N/mm ²)	25.5	25.5	25.5
m	2.75	2.75	2.75
σv_U (N/mm ²)		30	
σv_o (N/mm ²)		200	
σb_o (N/mm ²) at 150°C		80	
σb_o (N/mm ²) at 200°C		50	

APPLICATION LIMITS	MAGNITUDE	UNIT OF MEASURE
Max Temperature	260	°C
Min Temperature	-200	°C
Max Pressure	50	bar

It is not advisable to use the joint at both maximum temperature and maximum pressure simultaneously.

The maximum operating conditions depend on various factors such as the dimensions of the gasket, the clamping force between the flanges, etc.

PHYSICAL PROPERTIES	MAGNITUDE	UNIT OF MEASURE
Color	White	-
Thickness	0.8 to 3	mm
Sheet Size	1500x1500	mm
Density (DIN 28090-2)	2.2	g/cm ³
Compressibility (ASTM F36A)	7-12	%
Recovery (ASTM F36A)	>40	%
Tensile Strength (ASTM D1457)	25	N/mm ²
Elongation (ASTM D1457)	280	%
Gas Permeability (DIN 28090-2)	<0.003	mg/(s*m)
Compressive strength at 1% strain (ASTM D695)	>4	N/mm ²
Dipping Behavior		
Thickness Increase:		
7d at 20°C in 70% citric acid (ASTM F146)	1.1	%
Friction Coefficient (ASTM D1894)	0.06	-

This edition supersedes all previous issues and is subject to change without prior notice.

Given that all properties, specifications, and application parameters presented in this catalog are approximate and may affect each other, it is essential to conduct independent studies and evaluations to ensure suitability for your specific application.

All technical data and advice provided are based on previous experiences. Failure to select appropriate sealing products may lead to damage and/or personal injury. Please note that properties, specifications, and application parameters may change without notice. Varini Guarnizioni Industriali s.n.c. disclaims any liability of any kind whatsoever.