

# PTFE

## Filled with Glass



### PTFE filled with glass 25%.

The addition of glass fiber to Virgin PTFE gives the material improved resistance to wear and deformation, while maintaining the electrical and chemical characteristics unaltered.

It has high resistance to any type of aggressive chemical agent, even strongly oxidizing, except molten alkali metals, fluorine and its derivatives.



**Composition** Virgin PTFE charged with glass 25%

**Color** White

**Certificates** FDA, WRC, USP Class VI

**Thickness** 0.8 mm, 1.0 mm, 1.5 mm,  
2.0 mm, 3.0 mm  
More thicknesses on request.

### CONSTANT TIGHTENING:

$\sigma_{VU}$		MPa	17
$\sigma_{VO}$		MPa	175
$\sigma_{BO}$	a 200 °C	MPa	70
Y		MPa	15
m			2,0

### Industries

General Manufacturing | Oil & Gas | Chemical Industry | Energy | Food & Beverage | Pharma | Water

### TECHNICAL DATA:

Density	ASTM D792	g/cm <sup>3</sup>	2.25
Max. Temperature		°C	+260
Min. Temperature		°C	-200
Max. Pressure		Bar	50
Hardness	ASTM D2240	Shore D	62 - 67
Tensile Strength	ASTM D4894	MPa	14 - 21
Elongation	ASTM D4894	%	230 - 270
Compressive Strength: With 1% Deformation	ASTM D695	MPa	8 - 9
Pressure Conservation: After 24h at 13.7 MPa	ASTM D621	%	7 - 10
Pressure Conservation: After 24h at 13.7 MPa and 24h relax	ASTM D621	%	4 - 6.5
Volume Resistivity	ASTM D256	$\Omega \cdot \text{cm}$	10 <sup>15</sup>
Area Resistivity	ASTM D256	$\Omega$	10 <sup>16</sup>

-Is not advised the use in the maximum temperature and at the same time with the maximum pressure.

-The maximum exercise's condition depend on many factor as the gasket' s dimension, the clamping value between the flanges, etc

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences KLINGER Italy has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. KLINGER Italy does not undertake any liability of any kind whatsoever. Is not advised the use in the maximum temperature and at the same time with the maximum pressure.