

# PTFE

## Graphite Filled



### PTFE filled with graphite 25%.

In addition to the PTFE high chemical resistances, Graphite gives to the gaskets a great thermal conductivity and good deformation resistance.

Thanks to his endurance and his coefficient of friction, this material is recommended in cases of high speed conditions and where it is necessary to dissipate the electrostatic charges.



**Composition** Virgin PTFE sheets filled with Carbo-Graphite 25%.

**Color** Black

### CONSTANT TIGHTENING:

$\sigma_{VU}$		MPa	17
$\sigma_{VO}$		MPa	175
$\sigma_{BO}$	a 200 °C	MPa	70
$\gamma$		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>	2.1
Working Max. Temperature		°C	260
Working Min. Temperature		°C	-200
Max. Pressure		Bar	50
Hardness	ASTM D2240	Shore D	62 - 67
Tensile Strength	ASTM D4894	MPa	14 - 18
Elongation	ASTM D4894	%	70 - 120
Compressive Strength: With 1% Deformation	ASTM D695	MPa	7 - 9
Stress Retention: After 24h at 13.7 MPa	ASTM D621	%	5 - 6
Stress Retention: After 24h at 13.7 MPa and 24h relax	ASTM F146	%	2.5 - 4
Friction Coefficient	ASTM D1894		0.11

-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.