



# PLANIFLON PT2105

## Composition

**Middle rings and Top & Bottom rings:** Modified PTFE

## Characteristics

Key characteristics of the **Planiflon PT2105** include a specific gravity of 2.15 g/cm<sup>3</sup>, tensile strength of at least 28 N/mm<sup>2</sup>, and elongation at break of at least 350%. The tensile modulus is at least 600 N/mm<sup>2</sup>. Shrinkage is 3%, while deformation under load is 15%. The material is classified as V-0 for flammability and has a dielectric strength of 2.5 kV/mil. The service temperature range (general service) is from -200°C to 260°C. It is BAM approved for oxygen service.

## Applications

The **Planiflon PT2105** is a Chevron-configured seals particularly suitable for applications requiring reliable sealing of stems and seats of industrial valves in sectors such as chemical, petroleum, and pharmaceutical. Suitable for high-pressure and extreme temperature applications.

## Tech Data

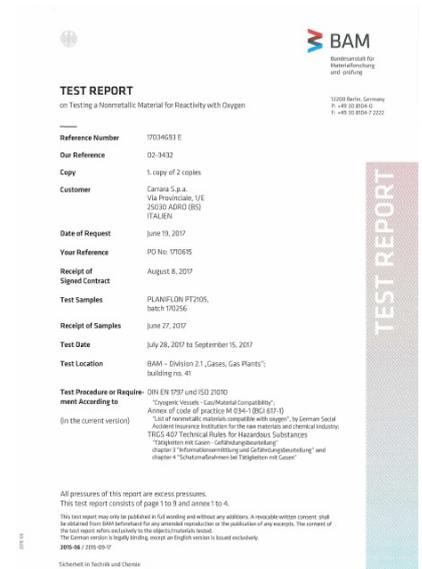
Properties	Unit	Value
Specific gravity	g/cm <sup>3</sup>	2,15
Tensile strenght	N/mm <sup>2</sup>	≥ 28
Elongation	%	≥ 350
Tensile modulus	N/mm <sup>2</sup>	≥ 600
Shrinkage	%	3
Compressive strength at 1% deformation	N/mm <sup>2</sup>	4-5
Deformation under load (24h 15,0 N/mm <sup>2</sup> 23°C)	%	15
Deformation under load (100h 15,0 N/mm <sup>2</sup> 23°C)	%	17
Deformation under load (Permanent 15,0 N/mm <sup>2</sup> 23°C)	%	11
Flammability		V-0
Melt point (initial)	°C	342 ± 10
Melt point (second)	°C	327 ± 10
Dielectric Strenght	kV/mil	2.5
Service Temperature Range (general service)	°C	-200 ÷ 260
BAM Approved for Oxygen Service	[°C ; Bar]	Suitable [60; 30] [200 ; 20]

- Never use the product at its maximum rated temperature and pressure. Consult the manufacturer for further information.
- The data reported in the technical sheet represent the average values of the product and may differ from those of the specific batch delivered.



## PLANIFLON PT2105

The **Planiflon PT2105** is a **high-quality PTFE** for stem and seat sealing of industrial valves. The material exhibits high chemical resistance (except for alkalis and hydrofluoric acid) and is suitable for a wide range of pressure applications.



The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not exactly represent the product, its color and/or marking.

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