

Composition

Modified PTFE

## **Characteristics**

Key characteristics of the **Planiflon PT2105** include a specific gravity of 2.15 g/cm3, tensile strength of at least 28 N/mm2, and elongation at break of at least 350%. The tensile modulus is at least 600 N/mm2. 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 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/cm3	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/mm²23°C)	%	15
Deformation under load (100h 15,0 N/mm² 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 to the maximum temperature and pressure associated. 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.



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.



# **PLANIFLON PT2105**

The **Planiflon PT2105** is a **highquality 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.

		BAM Bundesanstalt für Nateri alfenshang und -prifrung
TEST REPORT		
on Testing a Nonmetallic	Material for Reactivity with Oxygen	12200 Berlin, German Pi =49.30 804-0 Fi =49.30 804-7 222
Reference Number	17034693 E	
Our Reference	02-3432	
Copy	1. copy of 2 copies	1999 B
Customer	Carrara 5.p.a. Via Provinciale, 1/E 25030 ADRO (BS) (TALIEN	
Date of Request	June 19, 2017	
Your Reference	PO No: 1710615	
Receipt of Signed Contract	August 8, 2017	
Test Samples	PLANIFLON PT2105, batch 170256	
Receipt of Samples	June 27, 2017	
Test Date	July 28, 2017 to September 15, 2017	
Test Location	BAM – Division 2.1 "Gases, Gas Plants"; building no. 41	
	e- DIN EN 1797 und ISO 21010	
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All pressures of this repo This test report consists	rt are excess pressures. of page 1 to 9 and annex 1 to 4.	
be obtained from BAM beforeha the test report refors exclusively	lished in full wording and without any additions. A revocable written core of for any amended regraduation or the publication of any excepts. The to the object/materials iterated, drug, encept an English version is issued exclusively.	sent shall content of



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