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/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 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/cm3	2,15
Tensile strenght	N/mm^2	≥ 28
Elongation	%	≥ 350
Tensile modulus	N/mm^2	≥ 600
Shrinkage	%	3
Compressive strength at 1% deformation	N/mm^2	4-5
Deformation under load **(24h 15,0 N/mm^2 23°C)**	%	15
Deformation under load **(100h 15,0 N/mm^2 23°C)**	%	17
Deformation under load **(Permanent 15,0 N/mm^2 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 simultaneously. 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.



BAM

TEST REPORT

on Testing a Nonmetallic Material for Reactivity with Oxygen

TEST REPORT

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