PLANIFLON PT2105

Composition

Modified PTFE

Characteristics

Key characteristics of the 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^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 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.

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.

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