

Flon-Chem® - 1022-BLACK

FLON-CHEM®-1022-BLACK a filled compound based on virgin PTFE containing special filler that makes the material antistatic and electrically conductive.



PRODUCT CHARACTERISTICS:

It is suitable for all of the chemicals throughout the pH range (0-14) with the exception of molten alkali metals, fluorine gas, hydrogen fluoride or materials that can generate these.

FLON-CHEM®-1022-BLACK thanks to its characteristics is used as a static seal and dynamic gaskets, flanges, coatings, where the use of a conductive material is necessary (ATEX). Besides being suitable for contact with food is also used in Food & Pharma industry

FDA COMPLIANCE:

FLON-CHEM®-1022-BLACK It complies with FDA regulation 21 CFR 177.1550 for food contact

TYPICAL PROPERTIES:

PROPERTIES	TEST METHOD	UNITS	VALUE
PHYSICAL & MECHANICAL			
Color - Specific Gravity	g/cm ³	ASTM D792	Black - 2,14 - 2,18
Hardness Shore D	Shore D	ASTM D2240	51 - 60
Tensile Strength	N/mm ²	ASTM D4745	25 - 32
Elongation	%	ASTM D4745	210 - 320
Deformation under load (after 24 hrs at 13,7 N/mm ²)	%	ASTM D621	11 - 12
Permanent Deformation (after 24hrs relaxation)	%	ASTM D621	4 - 5
Coefficient of dynamic friction	/	ASTM D1894	0,06
THERMAL			
Working temperature min/max	°C	\\	-200 / +260
Coefficient of linear thermal expansion from 25 to 100°C	10-5/°C	ASTM D696	15 - 16
Thermal Conductivity	W/m*K	ASTM C177	0,34
ELECTRICAL			
Volume Resistivity	Ω x cm	ASTM D256	10 ⁴
Surface Resistivity	Ω	ASTM D256	10 ³

Note : These are typical properties and not used for specification purpose

PRODUCT PROPERTIES:

- Antistatic
- Very good electrical conductivity
- Very good mechanical properties
- UV resistance
- Exceptional temperature resistance
- Excellent chemical resistance
- Extremely non-adhesive
- Reduced friction & wear;
Low friction behavior
- High degree of hydrophobicity

All information in this document is based on years of experience in manufacture and use of the discussed products. Since sealing performance in the joint is subject to multiple factors such as mounting method, system parameters, and sealed medium, technical parameters specified herein are of informative nature only and cannot be used as grounds for any claims any special uses of products are subject to consulting with the manufacturer.