

Data Sheet Nano PTFE Filled FKM

Data Sheet Type Final

Material Reference V080 NPFKM

Polymer FKM(>68%
Flourine) PTFE

Date Issued 19/11/25











Description

An extremely high performance product manufactured by combining Nano PTFE Particles and FKM polymer to create a Low Friction, Low Gas Permeable, High Tensile and Abrasion Resistant material with wide ranging Chemical Resistance, suitable for a range of Sealing application in Medical, Bio-Chemical, Petrochemical and the Food and Drink Industries.

This material is tested and approved to USP Class VI, FDA Compliant and capable of meeting the requirements of many other Food and Drinking Water standards.

Currently produced as moulded sheets for the manufacture of Seals and Gaskets or as a compound for mouldings and extrusions.

| Specifications | Values | Test Methods |
|---|------------------|--------------|
| Colour | Black | None |
| Compression Set(22 Hours @ 175°C) | 15 Max % | ISO 2781 |
| Elongation at Break | 200 % | ISO 37 |
| Highest Recommended Working Temperature | 230 °C | None |
| Lowest Recommended Working Temperature | -20 °C | None |
| Shore Hardness(IRHD) | 80 +/- 5 ° Shore | ISO 48 |
| Specific Gravity | 1.92 g/cm 3 | ISO 48 |
| Tensile Strength | 12 MPA | ISO 37 |

Purposes











Chemical Resistant

Food Contact Suitability

Low Gas Permeability

Oil Resistance

Wear Resistant



Important Notes about this Material Data Sheet

This datasheet has been carefully compiled to advise you, our customer, in the best possible way. The information, figures, test values, and data correspond to actual engineering standards and are the result of many years of tests and trials. As individual operating conditions influence the application of each product, the information supplied in this datasheet can only be seen as a rough guideline. In every case it is the sole responsibility of the customer to evaluate his individual requirements, in particular whether the specified properties of our products are sufficient for the intended use. This datasheet is subject to alteration without prior notice. All mentioned values contained herein are guiding values representing long-term experience averages. Please be aware that Test Results for individual Material Batches will only be provided if requested at the time of order and may be subject to additional charges and/or lead times. This Data Sheet supersedes all previous data sheets and any other data previously provided either Verbally, Electronic or Written, with reference to the above Material Grade.