

## Data Sheet

## Nano PTFE Filled FKM

Data Sheet Type	Final
Material Reference	V080 NPFKM
Polymer	FKM(>68% Flourine) PTFE
Date Issued	31/07/25



## 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.