

Data Sheet

XNBR 70 Carboxylated Nitrile Food Grade Compound

Data Sheet Type	Final
Material Reference	XNBR 70
Polymer	XNBR
Date Issued	05/09/25



Description

Carboxylated Nitrile (XNBR) is a special type of nitrile polymer that exhibits enhanced tear and abrasion resistance while retaining excellent oil and solvent resistance.

XNBR compounds also provide high tensile strength and good physical properties at high temperatures.

This grade is also available in White and Grey colours

Specifications	Values	Test Methods
Abrasion Resistance	185 mm ³	DIN 53516
Compression Set	48 %	BS903
Elongation at Break	550 %	BS903 Part A2
Highest Recommended Working Temperature	150 °C	None
Lowest Recommended Working Temperature	-30 °C	None
Modulus @ 100%	2.5 N/mm ²	BS903 Part A2
Modulus @ 300%	5 N/mm ²	BS903 Part A2
Shore Hardness (Shore A)	70 ° Shore	ASTM D2240
Specific Gravity	1.29 g/cm ³	BS903 Part A1
Tear Strength	30 N/mm	BS903
Tensile Strength	12.5 N/mm ²	BS903 Part A2

Purposes



Abrasive Resistance



Food Contact Suitability



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.