

Data Sheet

XNBR 85 Carboxylated Nitrile Food Grade Compound

Data Sheet Type Final

Material Reference XNBR 85

Polymer XNBR

Date Issued 25/04/25



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.

Specifications	Values	Test Methods
Abrasion Resistance	149 %	DIN 53516
Colour	Black	None
Compression Set	50 %	BS903
Elongation at Break	520 %	DIN 53504
Highest Recommended Working Temperature	150 °C	None
Lowest Recommended Working Temperature	-30 °C	None
Modulus @ 100%	3.5 N/mm ²	DIN 53504
Modulus @ 300%	7 N/mm ²	DIN 53504
Shore Hardness (Shore A)	85 ° Shore	DIN 53505
Specific Gravity	1.31 g/cm ³	BS903 Part A1
Tear Strength	37 N/mm	DIN 53504
Tensile Strength	18.3 N/mm ²	DIN 53504

Purposes



Abrasive Resistance



Oil Resistance



Tear Resistant



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.