

Data Sheet

XNBR 85 Carboxylated Nitrile Food Grade Compound

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|--------------------|----------|
| Data Sheet Type    | Final    |
| Material Reference | XNBR 85  |
| Polymer            | XNBR     |
| Date Issued        | 24/07/24 |



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 <sup>2</sup>  | DIN 53504     |
| Modulus @ 300%                          | 7 N/mm <sup>2</sup>    | DIN 53504     |
| Shore Hardness (Shore A)                | 85 ° Shore             | DIN 53505     |
| Specific Gravity                        | 1.31 g/cm <sup>3</sup> | BS903 Part A1 |
| Tear Strength                           | 37 N/mm                | DIN 53504     |
| Tensile Strength                        | 18.3 N/mm <sup>2</sup> | DIN 53504     |

Purposes



Abrasive Resistance



Oil Resistance



Tear Resistant



Wear Resistant

Important Notes about this Material Data Sheet

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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.