NORDEL™ NGT 6670 EPDM

Designed for demanding automotive applications

NORDEL™ NGT 6670 EPDM is the first grade in the NORDEL™ NGT EPDM series, Dow's Next Generation Technology EPDM. Built on a new molecular architecture and supported by Dow's proprietary Advanced Molecular Catalyst (AMC) technology, the series builds on everything customers have trusted in NORDEL™ EPDM for decades. NORDEL™ NGT 6670 EPDM is designed to help reduce the conventional trade-off between processability and performance required for demanding automotive weatherseals applications.

Industry trends

The mobility industry is changing fast: with the move to electric vehicles, every gram counts, and OEMs look for lighter components that keep the same long-lasting quality. Tier suppliers, in turn, are under constant pressure to produce more efficiently and keep costs under control while maintaining the same high quality.

NORDEL™ NGT 6670 EPDM addresses industry needs by helping to enable lighter parts with excellent dynamic properties and helping to support efficient compounding and extrusion through fast cure and a higher fill factor. Like all NORDEL™ EPDM, the grade is made with AMC technology, which enables highly efficient production with fewer steps and up to 29% lower carbon footprint compared to a functionally equivalent EPDM made via the Ziegler-Natta process.[1]



Processing and performance in one grade

Due to its design and performance attributes, this grade has the potential to cover a variety of automotive sealing applications, from dry sponge and microdense to fast extrusion dense, as well as TPV weatherseal profiles.

Table 1. Typical properties of NORDEL™ NGT 6670 EPDM

Product grade	ML 1+4 @ 125°C [MU]	C2 [mass %]	ENB [mass %]	MWD
NORDEL™ NGT 6670 EPDM	70	59	8.9	Broad

*Typical values, not to be construed as specifications. Users should confirm results by their own tests.

Through its advanced molecular architecture, NORDEL™ NGT 6670 EPDM is engineered to offer the processing characteristics associated with lower-Mooney materials while capturing many of the performance advantages typically associated with higher-Mooney materials. At 70 MU, the grade offers the processing advantages of a 70 Mooney polymer, with performance characteristics that are normally associated with higher Mooney grades.

Very high diene content gives NORDEL™ NGT 6670 EPDM a fast rate of cure and quick skin formation, helping enable higher production line speed and fast extrusion. Its advanced molecular architecture improves processability in mixing, extrusion and calendaring, and improves shear thinning and surface finish.

In the finished part, the grade offers strong mechanical properties, good dimensional stability, better compression set and compression load deflection, and excellent elasticity and long-term sealing. The grade also helps enable higher filler loading and supports lightweighting through reduced density with excellent tensile strength and modulus.

[1]Product Carbon Footprint (PCF) analysis conducted in 2025 for NORDEL™ EPDM. PCF analysis available upon request.

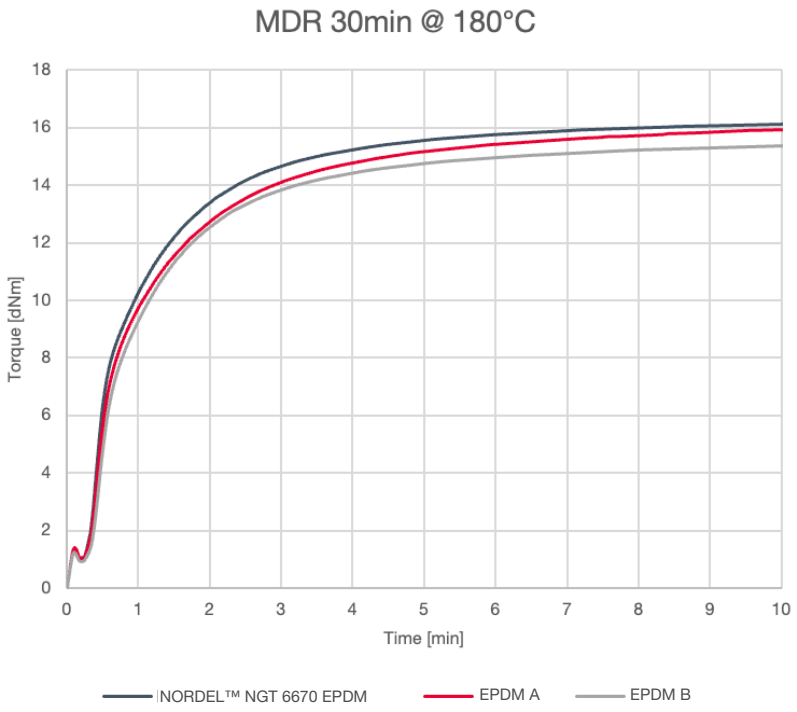
Nordel™ NGT EPDM

NORDEL™ NGT 6670 EPDM for **automotive dry sponge** applications

In dry sponge, manufacturers look for a balance between target density, compression performance, surface quality and stable processing. Data show that NORDEL™ NGT 6670 EPDM achieves target sponge density while offering better dynamic properties, like compression sets and elastic recovery. It requires less time than competing EPDM to reach the same curing state, than incumbent EPDM, helping enable higher production line speed and reliable extrusion with high surface quality. In the mixer, the grade supports up to a 5% increase in fill factor, which increases mixer batch size and improves utilization of assets.

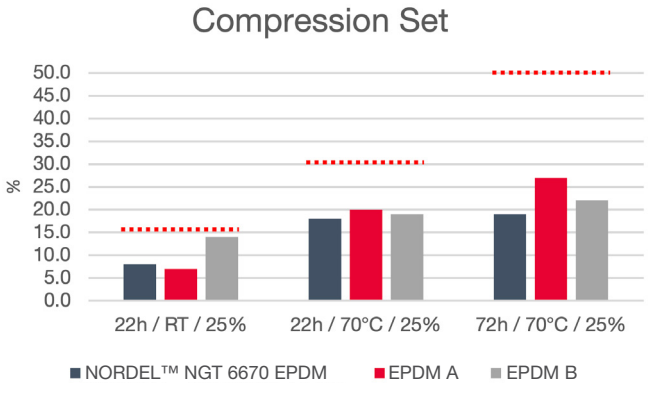


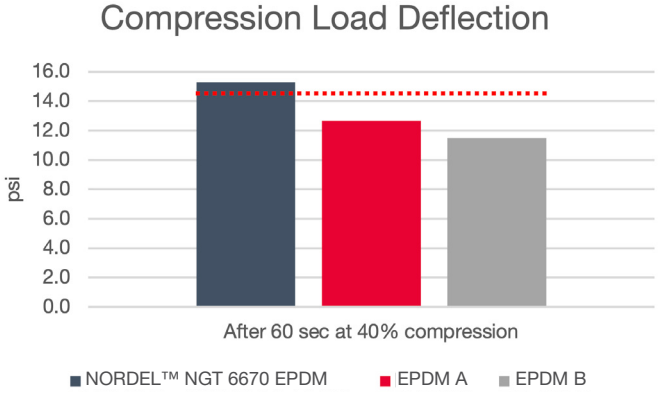
Figure 1. Compound cure properties



NORDEL™ NGT 6670 EPDM can offer uniform flow behavior, quick skin formation and better surface finish.

Figure 2. Extruded sponge physical properties





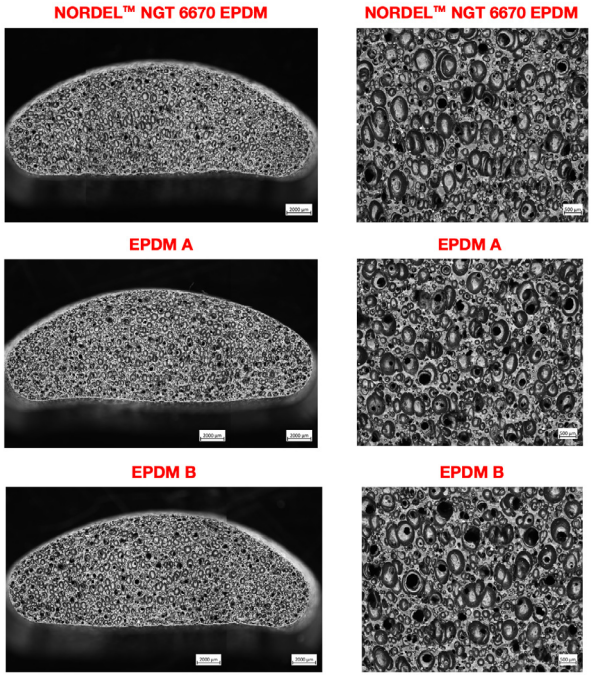
NORDEL™ NGT 6670 EPDM showed an improvement in compression set performance, indicating better sealing performance. Compression load deflection is also better, and together with excellent elasticity and long-term sealing, the grade becomes a strong choice for automotive sponge profiles.

NORDEL™ NGT 6670 EPDM offers better compression set after 22 hours and 72 hours at 70°C, and better compression load deflection.

*Typical values, not to be construed as specifications. Users should confirm results by their own tests.

Figure 3. Surface appearance and cell structure

The uniform cell structure ensures the excellent set properties seen in Figure 2.



*The graphic representations are presented here for illustrative purposes only and should not be construed as product specifications.



NORDEL™ NGT 6670 EPDM
offers a smooth surface and a more uniform cell structure with fewer open cells.

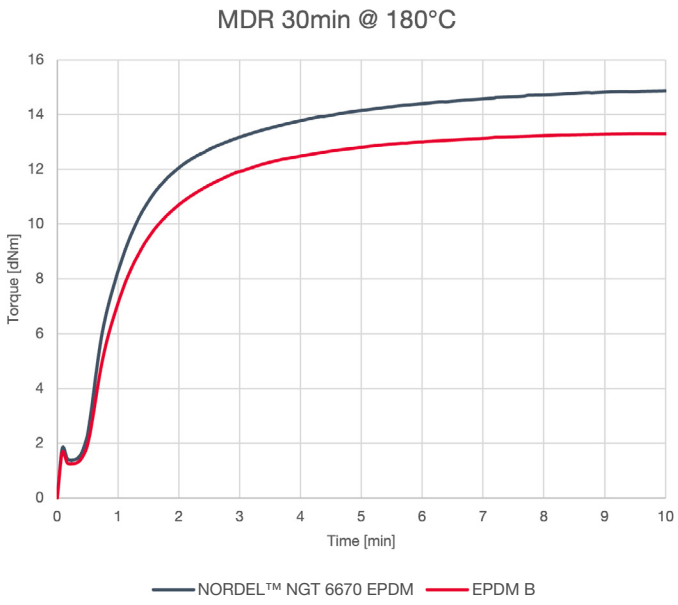
NORDEL™ NGT 6670 EPDM for **automotive microdense** applications

The industry is increasingly focusing on reducing weight in microdense weatherseals without weakening their performance. Manufacturers look to reduce density while maintaining mechanical strength and consistent curing, without slowing down production.

Cured under the same conditions, NORDEL™ NGT 6670 EPDM reaches a higher state of cure and crosslink density than competing EPDM, which supports better retention of mechanical properties after foaming.

NORDEL™ NGT 6670 EPDM
offers uniform flow behavior while maintaining good physical properties after foaming.

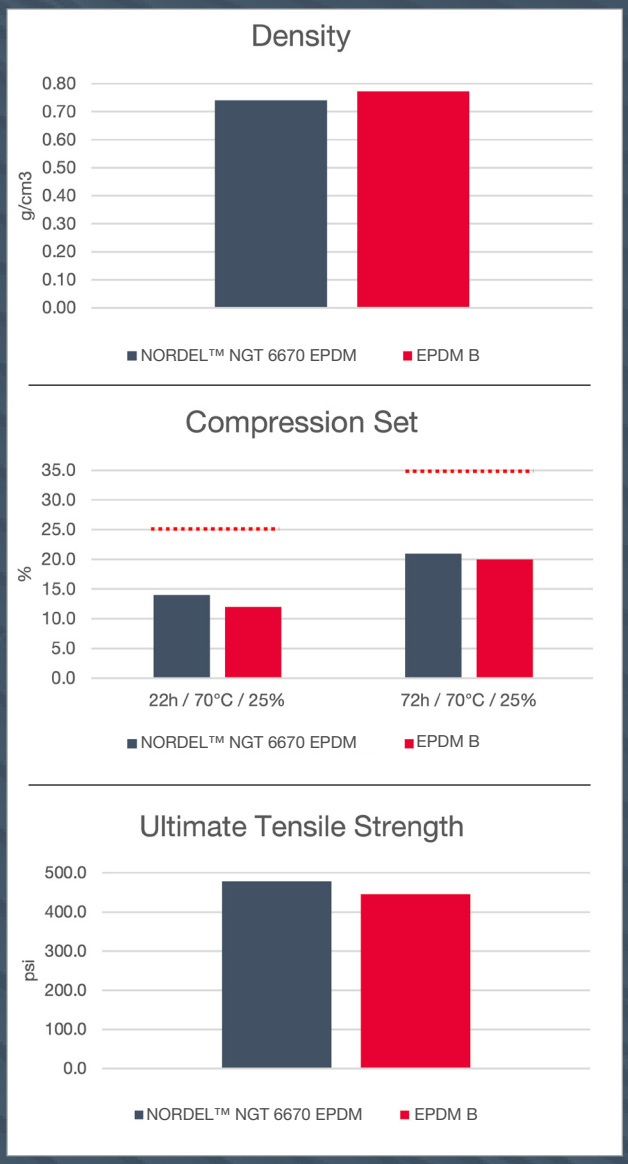
Figure 4. Compound cure properties



*Typical values, not to be construed as specifications. Users should confirm results by their own tests.

In the finished seal, NORDEL™ NGT 6670 EPDM supports reduced density with excellent tensile strength and modulus, for lighter seals that keep their strength.

Figure 5. Extruded microdense physical properties



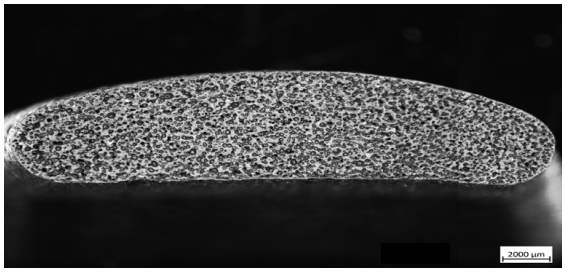
NORDEL™ NGT 6670 EPDM offers lower foamed density, with similar compression set after 22 hours and 72 hours at 70°C.

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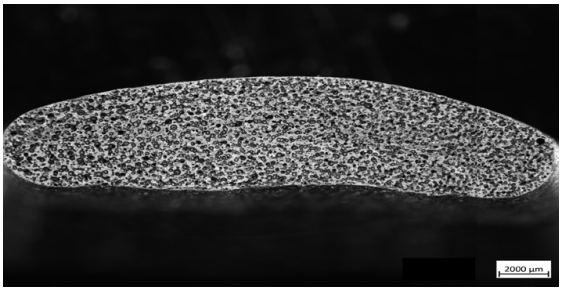
A uniform closed cell structure means NORDEL™ NGT 6670 EPDM retains exceptional strength after foaming, which makes the grade dependable in demanding applications.

Figure 6. Surface appearance and cell structure

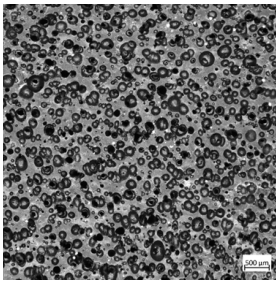
NORDEL™ NGT 6670 EPDM



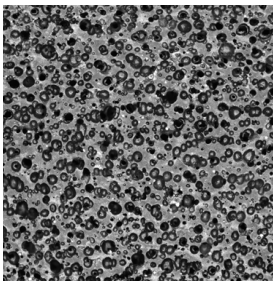
EPDM B



NORDEL™ NGT 6670 EPDM



EPDM B



NORDEL™ NGT 6670 EPDM shows a uniform closed cell structure, which supports retention of good mechanical performance after foaming.

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Get in touch

NORDEL™ NGT 6670 EPDM is the Next Generation Technology grade in action, building on everything compounders, tiers and OEMs already trust about NORDEL™ EPDM while offering the performance and efficiency they will need in the years ahead.

To learn more about NORDEL™ NGT 6670 EPDM, contact your Dow representative or visit dow.com.



About Dow

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