



NORDEL™ IP 4520 Hydrocarbon Rubber

Overview

NORDEL™ IP 4520 Hydrocarbon Rubber is an amorphous ethylene-propylene-diene terpolymer (EPDM) grade designed for molded applications. It is ideally suited for injection and transfer molded brake parts, corner moldings, general-purpose gaskets, and moldings. The combination of low viscosity and low crystallinity allows for good processability, low temperature properties, and product performance without the addition of a plasticizer.

Main Characteristics:

- Amorphous
- Medium diene
- Low molecular weight
- Good low temperature properties

- Complies with

U.S. FDA 21 CFR 177.2600,
U.S. FDA 21 CFR 175.105 (Adhesives only).
Consult the regulations for complete details.

Applications:

- Injection and transfer molded brake parts
- General purpose gaskets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.860 g/cm ³	0.860 g/cm ³	ASTM D297
Ethylene Content	50.0 wt%	50.0 wt%	ASTM D3900
Ethylidenenorbornene (ENB) Content	5.0 wt%	5.0 wt%	ASTM D6047
Mooney Viscosity (ML 1+4, 257°F (125°C))	20 MU	20 MU	ASTM D1646
Ash Content	< 0.1 wt%	< 0.1 wt%	ASTM D296
Molecular Weight Distribution	Medium	Medium	Dow Method
Propylene Content	45.0 wt%	45.0 wt%	ASTM D3900
Residual Transition Metal	< 10 ppm	< 10 ppm	Dow Method
Volatile Matter	< 0.40 wt%	< 0.40 wt%	Dow Method

Additional Information

Storage and Handling:

The quality of EPDM products may be affected by exposure to artificial or natural light. This product should be stored indoors in its original packaging and out of direct sunlight.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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