



## Technical Data Sheet

### NORDEL™ IP 3640 Hydrocarbon Rubber

#### Overview

NORDEL™ IP 3640 Hydrocarbon Rubber is an amorphous and low diene-containing ethylene-propylene-diene terpolymer (EPDM) and is suitable for heat resistant peroxide cured moldings. NORDEL™ IP 3640 can be blended with butyl rubber to improve processing and vulcanizate properties of automotive and bicycle tire innertubes.

#### Sustainability Attribute:



#### Main Characteristics

- Amorphous
- Low diene
- Good heat resistance

#### Complies with

- U.S. FDA 21 CFR 177.2600,
- U.S. FDA 21 CFR 177.1520 (See NOTES 1),
- U.S. FDA 21 CFR 175.105 (See NOTES 2),
- U.S. FDA 21 CFR 177.1210.

Consult the regulations for complete details.

#### Applications

- Blend component with butyl rubber in innertubes
- Heat resistant hoses and belts

#### NOTES:

<sup>1</sup>Can be used in contact with all foods except water in oil emulsions, high or low fat, and low moisture fats and oil.

<sup>2</sup>Adhesives only

#### Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Density	0.860	g/cm <sup>3</sup>	0.860	g/cm <sup>3</sup>	ASTM D297
Ethylene Content	55.0	wt%	55.0	wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	1.8	wt%	1.8	wt%	ASTM D6047
Mooney Viscosity (ML 1+4, 257°F (125°C))	40	MU	40	MU	ASTM D1646
Ash Content	< 0.10	%	< 0.10	%	ASTM D5667
Molecular Weight Distribution	Medium		Medium		Dow Method

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

## Properties (Cont.)

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Propylene Content	43.2	wt%	43.2	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

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