



NORDEL™ IP 4640 Hydrocarbon Rubber

Overview

NORDEL™ IP 4640 Hydrocarbon Rubber is a semi-amorphous ethylene-propylene-diene terpolymer (EPDM) grade designed for molded and extruded applications. It is ideally suited for general-purpose gaskets and moldings, extruded profiles and hoses. The combination of medium viscosity and low crystallinity allows for good balance of processability, low temperature properties, and product performance.

Main Characteristics:

- Medium diene
- Medium molecular weight

- 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:

- General purpose gaskets and moldings
- Extruded profiles and hoses

NOTES:

- (1) Can be used in contact with all foods except water in oil emulsions, high or low fat, and low moisture fats and oil.
 (2) Adhesives only.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.860 g/cm ³	0.860 g/cm ³	ASTM D297
Ethylene Content	55.0 wt%	55.0 wt%	ASTM D3900
Ethylidene Norbornene (ENB) Content	5.0 wt%	5.0 wt%	ASTM D6047
Mooney Viscosity (ML 1+4, 257°F (125°C))	40 MU	40 MU	ASTM D1646
Ash Content	< 0.1 wt%	< 0.1 wt%	ASTM D296
Molecular Weight Distribution	Medium	Medium	Dow Method
Propylene Content	40.0 wt%	40.0 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.

