# 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.

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:
(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/cm³ | 0.860 | g/cm³ | 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 |
| 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.

### Notes

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