



# NORDEL™ IP 4785HM

## Hydrocarbon Rubber

### Overview

NORDEL IP 4785HM Hydrocarbon Rubber is a high viscosity semi-crystalline grade which offers ease of processing, fast cure rates, and high states of cure with standard sulfur cure systems. It is designed for molded and extruded applications requiring high viscosities, high green strength, and high filler capacity. It is ideally suited for a wide range of extruded profiles and molded goods. It can also be peroxide cured.

#### Main Characteristics

- Semi-crystalline
- Medium Diene levels
- Good Green Strength
- Pellet Form for Fast Mixing
- Low Gel Content

#### Complies with:

- U.S. FDA 21 CFR 175.105: Adhesives only
- U.S. FDA 21 CFR 177.1210
- U.S. FDA 21 CFR 177.1520(c)3.4
- U.S. FDA 21 CFR 177.2600
- Consult the regulations for complete details.

#### Applications

- Extruded Profiles
- Automotive Weather Stripping
- Hose and Tubing

#### Storage and Handling

- NORDEL IP 4785HM Hydrocarbon Rubber should be stored indoors in its original packaging. The quality of EPDM products may be affected by exposure to artificial or natural light. The polymer should be stored in a cool environment to maintain the as received pellet condition.

#### Product Form

- The product is typically a pellet but may with time change into a friable bale.

| Physical                                 | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|------------------------------------------|-------------------------|-------------------------|-------------|
| Density                                  | 0.880 g/cm <sup>3</sup> | 0.880 g/cm <sup>3</sup> | ASTM D297   |
| Ethylene Content                         | 68.0 wt%                | 68.0 wt%                | ASTM D3900  |
| Ethylidenenorbornene (ENB) Content       | 4.9 wt%                 | 4.9 wt%                 | ASTM D6047  |
| Mooney Viscosity (ML 1+4, 257°F (125°C)) | 85 MU                   | 85 MU                   | ASTM D1646  |
| Ash Content                              | < 0.1 wt%               | < 0.1 wt%               | ASTM D296   |
| Molecular Weight Distribution            | Medium                  | Medium                  | Dow Method  |
| Propylene Content                        | 27.1 wt%                | 27.1 wt%                | ASTM D3900  |
| Residual Transition Metal                | < 10 ppm                | < 10 ppm                | Dow Method  |
| Total Volatiles                          | 0.4 wt%                 | 0.4 wt%                 | Dow Method  |

### 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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