

LyondellBasell Petrothene® NA443023 Blown Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

ApplicationsPETROTHENE NA 443 is a series of low density/EVA copolymer resins for high impact/high clarity packaging applications. NA 443 exhibits excellent processability and good balance of optics and strong heat sealing characteristics. **Regulatory Status**NA 443 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1350. This regulation allows the use of this ethylene vinyl acetate copolymer "in articles or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. **Processing Techniques**NA 443 has excellent drawdown characteristics that yield outstanding output rates. Optimum properties are obtained over a broad range of extrusion conditions at melt temperatures between 330-380°F melt temperatures and a blow-up ratio between 1.7-3.0:1. Using proper techniques and equipment, NA 443 can be drawn to 1.0 mil at commercial production rates. Specific recommendations for the processing of NA 442 can be made only when the end use application, required properties and the processing equipment are known. For exact recommendations, please contact your Equistar representative.**Physical Properties**These are typical values and not to be construed as specific product limits. Data obtained from film produced in a 3.5"(89mm) blown film line, commercially available 8"(203 mm)die, 375°F(191°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025"die gap at 130 lb/hr.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA443023-Blown-Low-Density-Polyethylene.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|-------------------------|
| Density | 0.927 g/cc | 0.0335 lb/in ³ | ASTM D1501 |
| Vinyl Acetate Content | 4.5 % | 4.5 % | |
| Thickness | 31.8 microns | 1.25 mil | 2:1 BUR; 25 mil die gap |
| Melt Flow | 1.2 g/10 min | 1.2 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------|-----------|------------------------------|
| Film Elongation at Break, MD | 350 % | 350 % | ASTM D882 |
| Film Elongation at Break, TD | 550 % | 550 % | ASTM D882 |
| Elmendorf Tear Strength MD | 140 g | 140 g | ASTM D1922 |
| Dart Drop Test | 150 g | 0.331 lb | F ₅₀ ; ASTM D1709 |
| Film Tensile Strength at Break, MD | 27.6 MPa | 4000 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 20.0 MPa | 2900 psi | ASTM D882 |
| 1% Secant Modulus, MD | 138 MPa | 20000 psi | ASTM D882 |
| 1% Secant Modulus, TD | 124 MPa | 18000 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|----------|---------|------------|
| Vicat Softening Point | 88.0 Å°C | 190 Å°F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|---------------------|
| Haze | 3.0 % | 3.0 % | ASTM D1003 |
| Gloss | 77 % | 77 % | at 45Å°; ASTM D2457 |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------|---------|----------|
| Melt Temperature | 191 Å°C | 375 Å°F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Antiblock | None | |
| Slip | None | |

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