

## LyondellBasell Petrothene® NA952000 Low Density Polyethylene

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

### Material Notes:

**Applications**PETROTHENE NA 952 is a series of homopolymer resins especially designed for industrial and consumer packaging, and liner and bag applications. NA 952 has an excellent balance of processability, toughness and drawdown. **Regulatory Status**The NA 952 basic resin meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer 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**Specific recommendations for processing NA 952 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales 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 6"(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-NA952000-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA952000-Low-Density-Polyethylene.php)

| Physical Properties | Metric       | English                   | Comments                |
|---------------------|--------------|---------------------------|-------------------------|
| Density             | 0.919 g/cc   | 0.0332 lb/in <sup>3</sup> | ASTM D1505              |
| Thickness           | 31.8 microns | 1.25 mil                  | 2:1 BUR; 25 mil die gap |
| Melt Flow           | 2.0 g/10 min | 2.0 g/10 min              | ASTM D1238              |

| Mechanical Properties              | Metric   | English   | Comments                     |
|------------------------------------|----------|-----------|------------------------------|
| Tensile Strength at Break          | 12.4 MPa | 1800 psi  | Molded; ASTM D638            |
| Film Elongation at Break, MD       | 200 %    | 200 %     | ASTM D882                    |
| Film Elongation at Break, TD       | 500 %    | 500 %     | ASTM D882                    |
| Elongation at Break                | 650 %    | 650 %     | Molded; ASTM D638            |
| Elmendorf Tear Strength MD         | 350 g    | 350 g     | ASTM D1922                   |
| Elmendorf Tear Strength TD         | 70 g     | 70 g      | ASTM D1922                   |
| Dart Drop Test                     | 110 g    | 0.243 lb  | F <sub>50</sub> ; ASTM D1709 |
| Film Tensile Strength at Break, MD | 22.1 MPa | 3200 psi  | ASTM D882                    |
| Film Tensile Strength at Break, TD | 15.9 MPa | 2300 psi  | ASTM D882                    |
| 1% Secant Modulus, MD              | 183 MPa  | 26500 psi | ASTM D882                    |
| 1% Secant Modulus, TD              | 221 MPa  | 32000 psi | ASTM D882                    |

| Thermal Properties    | Metric   | English | Comments   |
|-----------------------|----------|---------|------------|
| Vicat Softening Point | 85.0 Â°C | 185 Â°F | ASTM D1525 |

| Processing Properties | Metric  | English | Comments |
|-----------------------|---------|---------|----------|
| Melt Temperature      | 177 Â°C | 350 Â°F |          |

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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China