

## Technical Data Sheet

### *Petrothene* NA283245

Low Density Polyethylene



#### Product Description

*Petrothene* NA283245 is a homopolymer resin that combines clarity with strength and stiffness. In addition, NA283245 exhibits good impact strength on both flat and creased film. NA283245 provides enhanced clarity and sparkle in thin packaging films, such as bread and bakery bags.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* NA283245 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                       |
|--------------------------|-----------------------|
| <b>Status</b>            | Commercial: Active    |
| <b>Availability</b>      | North America         |
| <b>Application</b>       | Clarity Film          |
| <b>Market</b>            | Flexible Packaging    |
| <b>Processing Method</b> | Blown Film; Cast Film |

| Typical Properties               | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|----------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                  |               |                   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg) | 3.0           | g/10 min          | 3.0           | g/10 min          | ASTM D1238  |
| Density, (23 °C)                 | 0.928         | g/cm <sup>3</sup> | 0.928         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Film</b>                      |               |                   |               |                   |             |
| Tensile Strength at Break        |               |                   |               |                   |             |
| MD                               | 2800          | psi               | 19.3          | MPa               | ASTM D882   |
| TD                               | 2000          | psi               | 13.8          | MPa               | ASTM D882   |
| Tensile Strength at Yield        |               |                   |               |                   |             |
| MD                               | 1300          | psi               | 8.96          | MPa               | ASTM D882   |
| TD                               | 1300          | psi               | 8.96          | MPa               | ASTM D882   |
| Tensile Elongation at Break      |               |                   |               |                   |             |
| MD                               | 320           | %                 | 320           | %                 | ASTM D882   |
| TD                               | 470           | %                 | 470           | %                 | ASTM D882   |
| 1% Secant Modulus                |               |                   |               |                   |             |
| MD                               | 30000         | psi               | 207           | MPa               | ASTM D882   |
| TD                               | 34000         | psi               | 234           | MPa               | ASTM D882   |
| Elmendorf Tear Strength          |               |                   |               |                   |             |
| MD                               | 175           | g                 | 175           | g                 | ASTM D1922  |
| TD                               | 240           | g                 | 240           | g                 | ASTM D1922  |
| <b>Optical</b>                   |               |                   |               |                   |             |
| Haze                             | 4.8           | %                 | 4.8           | %                 | ASTM D1003  |
| Gloss, (45°)                     | 82            |                   | 82            |                   | ASTM D2457  |
| <b>Additive</b>                  |               |                   |               |                   |             |
| Slip                             | 1000          | ppm               | 1000          | ppm               | LYB Method  |
| Antiblock                        | 5500          | ppm               | 5500          | ppm               | LYB Method  |

## Notes

Data obtained from 1.0 mil (25 micron) cast film produced with a 30" die, 520 °F (271 °C) melt temperature at 150 lbs/hr.

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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