

### Technical Data Sheet



### Petrothene NA324013

Low Density Polyethylene

#### Product Description

Petrothene NA324013 is a low density homopolymer resin selected by customers for overwrap packaging and household film. NA324013 provides excellent optical properties and good stiffness for improved machineability.

#### Regulatory Status

For regulatory compliance information, see Petrothene NA324013 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                       |
|--------------------------|-----------------------|
| <b>Status</b>            | Commercial: Active    |
| <b>Availability</b>      | North America         |
| <b>Application</b>       | Film Wrap             |
| <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  |
| Base Resin Density, (23 °C)        | 0.931         | g/cm³         | 0.931         | g/cm³    | ASTM D1505  |
| Product Density, (23 °C)           | 0.931         | g/cm³         | 0.931         | g/cm³    | ASTM D1505  |
| <b>Film</b>                        |               |               |               |          |             |
| Dart Drop Impact Strength, F50     | 62            | g             | 62            | g        | ASTM D1709  |
| <b>Tensile Strength at Break</b>   |               |               |               |          |             |
| MD                                 | 3400          | psi           | 23.4          | MPa      | ASTM D882   |
| TD                                 | 2250          | psi           | 15.5          | MPa      | ASTM D882   |
| <b>Tensile Elongation at Break</b> |               |               |               |          |             |
| MD                                 | 410           | %             | 410           | %        | ASTM D882   |
| TD                                 | 420           | %             | 420           | %        | ASTM D882   |
| <b>1% Secant Modulus</b>           |               |               |               |          |             |
| MD                                 | 47000         | psi           | 324           | MPa      | ASTM D882   |
| TD                                 | 58000         | psi           | 400           | MPa      | ASTM D882   |
| <b>Optical</b>                     |               |               |               |          |             |
| Haze                               | 6.8           | %             | 6.8           | %        | ASTM D1003  |
| Gloss, (60°)                       | 68            |               | 68            |          | ASTM D2457  |
| <b>Additive</b>                    |               |               |               |          |             |
| Slip                               | None          |               | None          |          | LYB Method  |
| Antiblock                          | None          |               | None          |          | LYB Method  |

| Product  | Product Density(g/cm³) | Slip(ppm) | Antiblock (ppm) |
|----------|------------------------|-----------|-----------------|
| NA324013 | 0.931                  | None      | None            |
| NA324244 | 0.934                  | 1600      | 6000            |

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### Notes

Data obtained from 1.25 mil (32 micron) film produced on a blown film line with a 8" (203 mm) die, 375°F (191°C) melt temperature, 2:1 BUR, 0.025" die gap at 100 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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