# Technical Data Sheet

# *Petrothene* NA373244

Low Density Polyethylene

## Product Description

*Petrothene* NA373 is a series of homopolymer resins selected by customers for use in household film and other applications that require high clarity and good impact strength combined with low COF.

## Regulatory Status

For regulatory compliance information, see *Petrothene* NA373244 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | North America |
| **Application** | Bags & Pouches; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Secondary Packaging |
| **Market** | Flexible Packaging |
| **Processing Method** | Blown Film; Cast Film |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---|---|---|---|---|
| **Physical** | | | | | |
| 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) | 0.924 | g/cm³ | 0.924 | g/cm³ | ASTM D1505 |
| Product Density, (23 °C) | 0.927 | g/cm³ | 0.927 | g/cm³ | ASTM D1505 |
| **Film** | | | | | |
| Dart Drop Impact Strength, F50 | 100 | g | 100 | g | ASTM D1709 |
| Tensile Strength at Break | | | | | |
| MD | 2800 | psi | 19.3 | MPa | ASTM D882 |
| TD | 2400 | psi | 16.5 | MPa | ASTM D882 |
| Tensile Strength at Yield | | | | | |
| MD | 1700 | psi | 12.4 | MPa | ASTM D882 |
| TD | 1800 | psi | | | ASTM D882 |
| Tensile Elongation at Break | | | | | |
| MD | 360 | % | 360 | % | ASTM D882 |
| TD | 500 | % | 500 | % | ASTM D882 |
| 1% Secant Modulus | | | | | |
| MD | 30000 | psi | 207 | MPa | ASTM D882 |
| TD | 33500 | psi | 231 | MPa | ASTM D882 |
| Elmendorf Tear Strength | | | | | |
| MD | 320 | g | 320 | g | ASTM D1922 |
| TD | 300 | g | 300 | g | ASTM D1922 |
| **Optical** | | | | | |
| Haze | 9 | % | 9 | % | ASTM D1003 |
| Gloss | 73 | | 73 | | ASTM D2457 |
| **Additive** | | | | | |
| Slip | 1600 | ppm | 1600 | ppm | LYB Method |



Manufacturer website: https://www.lyondellbasell.com/en/

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|---|---|---|---|---|---|---|
| Antiblock | 6000 | ppm | 6000 | ppm | LYB Method |

## Product

### Notes

Data obtained from 2.0 mil (51 micron) film produced on a blown film line with a 4" (102 mm) die, 370 °F (188 °C) melt temperature, 2.5:1 BUR, 0.025" die gap at 60 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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