Technical Data Sheet

# *Petrothene* NA814000

Low Density Polyethylene

## Product Description

*Petrothene* NA814000 is a low density homopolymer resin selected by customers for a wide variety of blow molding applications. This resin exhibits excellent gloss, an excellent balance of physical properties and good processability.

## Regulatory Status

For regulatory compliance information, see *Petrothene* NA814000 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | North America |
| **Application** | Bottles and Vials; Bottles For Consumer Goods; Bottles for Industrial Use; Caps & Closures; Clear Containers; Opaque Containers |
| **Market** | Rigid Packaging |
| **Processing Method** | Extrusion Blow Molding |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---|---|---|---|---|
| **Physical** | | | | | |
| Melt Flow Rate, (190 °C/2.16 kg) | 1.3 | g/10 min | 1.3 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.919 | g/cm³ | 0.919 | g/cm³ | ASTM D1505 |
| **Mechanical** | | | | | |
| Flexural Modulus, (1% Secant) | 33000 | psi | 228 | MPa | ASTM D790 |
| Tensile Strength at Break | 1700 | psi | 11.7 | MPa | ASTM D638 |
| Tensile Elongation at Break | >600 | % | >600 | % | ASTM D638 |
| **Hardness** | | | | | |
| Shore Hardness, (Shore D) | 48 | | 48 | | ASTM D2240 |
| **Thermal** | | | | | |
| Vicat Softening Temperature | 194 | °F | 90 | °C | ASTM D1525 |
| Low Temperature Brittleness, $F_{50}$ | <-105 | °F | <-76 | °C | ASTM D746 |
| Deflection Temperature Under Load, (66 psi, Unannealed) | 104 | °F | 40 | °C | ASTM D648 |



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

## Notes

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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