

## LyondellBasell Petrothene® NA814000 Low Density Polyethylene

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

### Material Notes:

**Applications**PETROTHENE NA 814-000 is a low density homopolymer resin specifically developed for a wide variety of blow molding applications. This resin exhibits excellent gloss, an excellent balance of physical properties and good processability. Regulatory StatusNA 814-000 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**NA 814-000 has been specifically designed to provide excellent processability and flow properties, yielding improved output rates and part appearance. This resin can be molded over a wide range of melt temperatures with a recommended range of 350°-500°F. Specific recommendations for conditions under which NA 814-000 should be processed can be made only when the end use and type of processing equipment are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-NA814000-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA814000-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.9185 g/cc	0.03318 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	1.3 g/10 min	1.3 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength at Break	11.7 MPa	1700 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	0.228 GPa	33.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	40.0 Å°C	104 Å°F	ASTM D648
Vicat Softening Point	90.0 Å°C	194 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	F <sub>50</sub> ; ASTM D746

## 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