

## Technical Data Sheet

### *Petrothene* NA143063



Low Density Polyethylene

#### Product Description

*Petrothene* NA143063 is a homopolymer resin selected by customers for blown film. Typical applications include stiff liners. NA143063 exhibits good processability and clarity.

#### Regulatory Status

For regulatory compliance information, see *Petrothene* NA143063 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial
<b>Availability</b>	North America
<b>Application</b>	Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Liner Film; Surface Protection 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)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Density, (23 °C)	0.922	g/cm <sup>3</sup>	0.922	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>					
Tensile Strength	1720	psi	11.9	MPa	ASTM D638
Tensile Elongation at Break	650	%	650	%	ASTM D638
<b>Film</b>					
Dart Drop Impact Strength, F50	130	g	130	g	ASTM D1709
Tensile Strength at Break					
MD	2800	psi	19.3	MPa	ASTM D882
TD	2700	psi	18.6	MPa	ASTM D882
Tensile Strength at Yield					
MD	1600	psi	11.0	MPa	ASTM D882
TD	1650	psi	11.4	MPa	ASTM D882
Tensile Elongation at Break					
MD	360	%	360	%	ASTM D882
TD	540	%	540	%	ASTM D882
1% Secant Modulus					
MD	28000	psi	193	MPa	ASTM D882
TD	31000	psi	214	MPa	ASTM D882
Elmendorf Tear Strength					
MD	300	g	300	g	ASTM D1922
TD	265	g	265	g	ASTM D1922
<b>Thermal</b>					
Vicat Softening Temperature	199	°F	93	°C	ASTM D1525

<b>Optical</b>			
Haze	7 %	7 %	ASTM D1003
Gloss, (45°)	70	70	ASTM D2457
<b>Additive</b>			
Slip	750 ppm	750 ppm	LYB Method
Antiblock	1500 ppm	1500 ppm	LYB Method

### Notes

Mechanical data derived from Type IV specimen, 75 mil plaque @ 20" per minute.

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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Users should review the applicable Safety Data Sheet before handling the product.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (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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