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).

Status	Commercial
Availability	North America
Application	Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Lamination Film; Liner Film; Surface Protection Film
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)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Density, (23 °C)	0.922	g/cm³	0.922	g/cm³	ASTM D1505
Mechanical					
Tensile Strength	1720	psi	11.9	MPa	ASTM D638
Tensile Elongation at Break	650	%	650	%	ASTM D638
Film					
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
Thermal					
Vicat Softening Temperature	199	°F	93	°C	ASTM D1525

Optical					
Haze	7	%	7	%	ASTM D1003
Gloss, (45°)	70		70		ASTM D2457
Additive					
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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