

Technical Data Sheet



Petrothene NA303013

Low Density Polyethylene

Product Description

Petrothene NA303 is a series of fractional melt index homopolymer LDPE resins designed for film applications requiring excellent bubble stability/melt strength, impact strength, stiffness and shrink. NA303 is selected by customers for collation shrink films, pallet shrink films, packaging films and heavy duty films where processability, strength and stiffness are important. NA303 contains an antioxidant.

Regulatory Status

For regulatory compliance information, see Petrothene NA303013 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America; South & Central America
Application	Agriculture Film; Bags & Pouches; Can Liners; Clarity Film; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Shrink Film; Stretch Hood; Textile Packaging Film
Market	Flexible Packaging
Processing Method	Blown Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.25	g/10 min	0.25	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9220	g/cm³	0.9220	g/cm³	ASTM D1505
Product Density, (23 °C)	0.9220	g/cm³	0.9220	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	190	g	190	g	ASTM D1709
Tensile Strength at Break					
MD	4000	psi	28	MPa	ASTM D882
TD	3500	psi	24	MPa	ASTM D882
Tensile Strength at Yield					
MD	1700	psi	12	MPa	ASTM D882
TD	1800	psi	12	MPa	ASTM D882
Tensile Elongation at Break					
MD	400	%	400	%	ASTM D882
TD	550	%	550	%	ASTM D882
1% Secant Modulus					
MD	32000	psi	220	MPa	ASTM D882
TD	36000	psi	250	MPa	ASTM D882
Elmendorf Tear Strength					
MD	170	g	170	g	ASTM D1922
TD	220	g	220	g	ASTM D1922
Optical					
Haze	7.5	%	7.5	%	ASTM D1003
Gloss	62		62		ASTM D2457

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Additive

Slip	None	None	LYB Method
Antiblock	None	None	LYB Method

Product	Product Density(g/cm³)	Haze(%)	Antiblock (ppm)
NA303013	0.9220	7.5	None
NA303212	0.9232	8.5	2000

Notes

Data obtained from 2.0 mil film produced on a 2" extruder with a 4" die, 400°F 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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