

Technical Data Sheet



Petrothene NA305212

Low Density Polyethylene

Product Description

Petrothene NA305212 is a fractional melt index homopolymer LDPE resin designed for film applications requiring an excellent balance of clarity, stiffness, shrink and strength. NA305212 is selected by customers for collation shrink films, pallet shrink films, packaging films and heavy duty films where clarity and stiffness are important. NA305212 contains an antioxidant.

Regulatory Status

For regulatory compliance information, see Petrothene NA305212 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America; South & Central America
Application	Bags & Pouches; Clarity Film; Film Wrap; Food Packaging Film; Heavy Duty Packaging; Industrial Film; Lamination Film; Shrink Film; Surface Protection 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)	0.80	g/10 min	0.80	g/10 min	ASTM D1238
Base Resin Density, (23 °C)	0.9220	g/cm³	0.9220	g/cm³	ASTM D1505
Product Density, (23 °C)	0.9232	g/cm³	0.9232	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	150	g	150	g	ASTM D1709
Tensile Strength at Break					
MD	3600	psi	25	MPa	ASTM D882
TD	3100	psi	21	MPa	ASTM D882
Tensile Strength at Yield					
MD	1600	psi	11	MPa	ASTM D882
TD	1700	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	270	g	270	g	ASTM D1922
TD	290	g	290	g	ASTM D1922
Optical					
Haze	7.0	%	7.0	%	ASTM D1003
Gloss, (45°)	72		72		ASTM D2457
Additive					

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Slip	None	None	LYB Method
Antiblock	2000 ppm	2000 ppm	LYB Method

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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