Technical Data Sheet

Petrothene NA283245

Low Density Polyethylene

Product Description

Petrothene NA283245 is a homopolymer resin that combines clarity with strength and stiffness. In addition, NA283245 exhibits good impact strength on both flat and creased film. NA283245 provides enhanced clarity and sparkle in thin packaging films, such as bread and bakery bags.

Regulatory Status

For regulatory compliance information, see *Petrothene* NA283245 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial
Availability	North America
Application	Clarity 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)	3.0	g/10 min	3.0	g/10 min	ASTM D1238
Density, (23 °C)	0.928	g/cm³	0.928	g/cm³	ASTM D1505
Film					
Tensile Strength at Break					
MD	2800	psi	19.3	MPa	ASTM D882
TD	2000	psi	13.8	MPa	ASTM D882
Tensile Strength at Yield					
MD	1300	psi	8.96	MPa	ASTM D882
TD	1300	psi	8.96	MPa	ASTM D882
Tensile Elongation at Break					
MD	320	%	320	%	ASTM D882
TD	470	%	470	%	ASTM D882
1% Secant Modulus					
MD	30000	psi	207	MPa	ASTM D882
TD	34000	psi	234	MPa	ASTM D882
Elmendorf Tear Strength					
MD	175	g	175	g	ASTM D1922
TD	240	g	240	g	ASTM D1922
Optical					
Haze	4.8	%	4.8	%	ASTM D1003
Gloss, (45°)	82		82		ASTM D2457
Additive					
Slip	1000	ppm	1000	ppm	LYB Method
Antiblock	5500	ppm	5500	ppm	LYB Method

Notes

Data obtained from 1.0 mil (25 micron) cast film produced with a 30" die, 520 °F (271 °C) melt temperature at 150 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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