

Technical Data Sheet



Petrothene NA285003

Low Density Polyethylene

Product Description

Petrothene NA285003 is a medium density polyethylene resin selected by customers for blown or cast film extrusion. Typical applications include overwrap film. This product exhibits good film optics and high stiffness.

Regulatory Status

For regulatory compliance information, see Petrothene NA285003 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Caps & Closures; Clarity Film
Market	Flexible Packaging
Processing Method	Cast Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	6.2	g/10 min	6.2	g/10 min	ASTM D1238
Density, (23 °C)	0.930	g/cm³	0.930	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	60	g	60	g	ASTM D1709
Tensile Strength at Break					
MD	4400	psi	30.3	MPa	ASTM D882
TD	4200	psi	29.0	MPa	ASTM D882
Tensile Elongation at Break					
MD	500	%	500	%	ASTM D882
TD	600	%	600	%	ASTM D882
1% Secant Modulus					
MD	38000	psi	262	MPa	ASTM D882
TD	43000	psi	296	MPa	ASTM D882
Optical					
Haze	7.0	%	7.0	%	ASTM D1003
Gloss, (45°)	65		65		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method



Notes

Film gauge: 1.25 mil (32 micron)

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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