

Technical Data Sheet

Petrothene M2520FN



Low Density Polyethylene

Product Description

Petrothene M2520FN is a film grade resin that exhibits excellent optics, good bubble stability and outstanding processability. M2520FN is selected by customers for use in high clarity packaging applications that require higher modulus.

Regulatory Status

For regulatory compliance information, see *Petrothene* M2520FN [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
Base Resin Density, (23 °C)	0.9245	g/cm ³	0.9245	g/cm ³	ASTM D1505
Product Density, (23 °C)	0.925	g/cm ³	0.925	g/cm ³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	75	g	75	g	ASTM D1709
Tensile Strength at Break					
MD	4300	psi	29.6	MPa	ASTM D882
TD	3300	psi	22.8	MPa	ASTM D882
Tensile Strength at Yield					
MD	1700	psi	11.7	MPa	ASTM D882
TD	1900	psi	13.1	MPa	ASTM D882
Tensile Elongation at Break					
MD	130	%	130	%	ASTM D882
TD	470	%	470	%	ASTM D882
1% Secant Modulus					
MD	39000	psi	269	MPa	ASTM D882
TD	49000	psi	338	MPa	ASTM D882
Elmendorf Tear Strength					
MD	270	g	270	g	ASTM D1922
TD	80	g	80	g	ASTM D1922
Optical					
Haze	5.5	%	5.5	%	ASTM D1003
Gloss	70		70		ASTM D2457

Additive			
Slip	800 ppm	800 ppm	LYB Method
Antiblock	1000 ppm	1000 ppm	LYB Method

Notes

Data obtained from 1.0 mil (32 micron) film produced on a blown film line with 4" (102 mm) die, 0.025" die gap, 2:1 BUR, and 375°F (191°C) melt temperature operating at 50 lbs/hr.

Optical properties were measured on product version without slip or antiblock.

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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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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