

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.

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
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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.

