


Petrothene®

M2520

Low Density Polyethylene
Film Grade
Melt Index 2.0 Density 0.925
Applications

PETROTHENE M2520 is a film grade resin that exhibits excellent optics, good gloss, good bubble stability and outstanding processability. A typical application for this resin is high clarity packaging that requires higher modulus.

Regulatory Status

M2520 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles that contact food except for articles used for packing or holding food during cooking." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Specific recommendations for processing M2520 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	2.0	g/10 min	D 1238
Base Resin Density	0.925	g/cc	D 1558
Film*			
Haze	5.5	%	D 1003
Gloss, 45°	70	units	D 2457
Dart Drop Impact Strength, F ₅₀	75	g	D 1709
Tensile Strength @ Break, MD (TD)	4,300 (3,300)	psi	D 882
Tensile Strength @ Yield, MD (TD)	1,700 (1,900)	psi	D 882
Elongation @ Break, MD (TD)	130 (470)	%	D 882
1% Secant Modulus, MD (TD)	39,000 (49,000)	psi	E 111
Elmendorf Tear, MD (TD)	270 (80)	g	D 1922

Product M2520FNx02

Slip, ppm	800
Antiblock, ppm	1,000

These are typical values and are not to be construed as specific product limits.

* Data obtained from film produced with a 375°F (191°C) melt extrusion temperature 2:1 BUR, 1.0 mil (32 micron) gauge, 0.025" die gap at 50 lb/hr on a 4" die. Optical properties are for additive free product.

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