

Petrothene

M2520



Low Density Polyethylene

Film Grade

Melt Index: 2.0 Density: 0.9245

Applications

Petrothene M2520 is a film grade resin that exhibits excellent optics, good gloss, good bubble stability and outstanding processability. M2520 is selected by customers for use in high clarity packaging applications that require 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 or components of articles intended for use in contact with food." Specific limitations or conditions of use may apply. Contact your Equistar product safety 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.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	2.0	g/10 min	D 1238
Base Resin Density	0.9245	g/cc	D 1505
Film*			
Haze	5.5	%	D 1003
Gloss, 45°	70	units	D 2457
Dart Drop Impact Strength, F50	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	M2520FN
Slip, ppm	800
Antiblock, ppm	1,000

* 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.

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