

LyondellBasell Petrothene® M2520FN Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

ApplicationsPETROTHENE M 2520 is a film grade resin that exhibits excellent optics, good gloss and good bubble stability. A typical application for this resin is high clarity packaging. **Regulatory Status**M 2520 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520C 2.1. 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 M 2520 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.**Film Processing Conditions**20 Mil Die Gap; BUR 2:1; (1.0 Mil Gauge)This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-M2520FN-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.925 g/cc	0.0334 lb/in ³	ASTM D1558
Thickness	25.4 microns	1.00 mil	2:1 BUR; 20 mil die gap
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.3 MPa	1500 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.7 MPa	1700 psi	ASTM D882
Film Elongation at Break, MD	250 %	250 %	ASTM D882
Film Elongation at Break, TD	520 %	520 %	ASTM D882
Elmendorf Tear Strength MD	136 g	136 g	ASTM D1922
Elmendorf Tear Strength TD	120 g	120 g	ASTM D1922
Dart Drop Test	50.0 - 60.0 g	0.110 - 0.132 lb	ASTM D1709
Film Tensile Strength at Break, MD	23.4 MPa	3400 psi	ASTM D882
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM D882
1% Secant Modulus, MD	214 MPa	31000 psi	ASTM D882
1% Secant Modulus, TD	241 MPa	35000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	5.5 %	5.5 %	ASTM D1003

Optical Properties	Metric	English	Comments
			at 60A , ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	160 Â°C	320 Â°F	

Descriptive Properties	Value	Comments
Antiblock	Low	
Slip	High	

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