

## LyondellBasell Petrothene® L3035 Low Density Polyethylene, Film Extrusion Grade

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

### Material Notes:

Petrothene L3035 is a fractional melt index LDPE resin that exhibits an exceptional balance of optics, modulus, puncture, tear and shrink characteristics. Typical applications include collation shrink film, shrink bundling, pallet shrink film, frozen food packaging, overwraps and heavy duty films where clarity and stiffness are important. Regulatory Status: The basic resin L3035 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 sales representative for further information regarding the suitability of specific products for specific applications. Specific recommendations for the processing of L3035 can be made only when the end use application, required properties and the processing equipment are known. For exact recommendations, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-L3035-Low-Density-Polyethylene-Film-Extrusion-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-L3035-Low-Density-Polyethylene-Film-Extrusion-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in <sup>3</sup>	base resin; ASTM D1558
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.40 g/10 min	0.40 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	14.5 MPa	2100 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.2 MPa	2200 psi	ASTM D882
Film Elongation at Break, MD	470 %	470 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Impact Test	1.80 J	1.33 ft-lb	puncture strength; ASTM D5748
Elmendorf Tear Strength MD	230 g	230 g	ASTM D1922
Elmendorf Tear Strength TD	310 g	310 g	ASTM D1922
Film Tensile Strength at Break, MD	32.4 MPa	4700 psi	ASTM D882
Film Tensile Strength at Break, TD	28.3 MPa	4100 psi	ASTM D882
1% Secant Modulus, MD	303 MPa	44000 psi	ASTM E111
1% Secant Modulus, TD	338 MPa	49000 psi	ASTM E111

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	70 %	70 %	45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	210 °C	410 °F	
Die Opening	0.1524 cm	0.06000 in	
Blow-up Ratio (BUR)	3.0	3.0	

## Contact Songhan Plastic Technology Co.,Ltd.

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