

# Petrothene® L3035

Low Density Polyethylene  
LyondellBasell Industries

## Message:

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.

General Information			
Features	Rigid, good		
	Optical		
	Perforation resistance		
	Good tear strength		
	Medium transparency		
Uses	Films		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.929	g/cm³	ASTM D1558
Melt Mass-Flow Rate (MFR)	0.40	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
secant modulus			ASTM D882
MD	303	MPa	ASTM D882
TD	338	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	14.5	MPa	ASTM D882
TD: Yield	15.2	MPa	ASTM D882
MD: Fracture	32.4	MPa	ASTM D882
TD: Fracture	28.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	470	%	ASTM D882
TD: Fracture	550	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD	230	g	ASTM D1922
TD	310	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	70		ASTM D2457
Haze	7.0	%	ASTM D1003

Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance	1.80	J	ASTM D5748
Extrusion	Nominal Value	Unit	
Melt Temperature	210	°C	
Extrusion instructions			
Data obtained from 2.0 mil film produced on a 2" extruder with a 4" die, 410°F Melt Temperature, 3:1 BUR, 0.060" die gap at 50 lb/hr.			
NOTE			

1. Base Resin Density

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#### Recommended distributors for this material

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