Technical Data Sheet

Petrothene L3035

Low Density Polyethylene

Product Description

Petrothene L3035 is a fractional melt index LDPE resin that exhibits an excellent 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

For regulatory compliance information, see *Petrothene* L3035 Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	North America
Application	Clarity Film
Market	Flexible Packaging
Processing Method	Blown Film

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
Physical					
Melt Flow Rate, (190 °C/2.16 kg)	0.40	g/10 min	0.40	g/10 min	ASTM D1238
Density, (23 °C)	0.929	g/cm³	0.929	g/cm³	ASTM D1505
Film					
Dart Drop Impact Strength, F50	120	g	120	g	ASTM D1709
Tensile Strength at Break					
MD	3700	psi	25.5	MPa	ASTM D882
TD	3600	psi	24.8	MPa	ASTM D882
Tensile Strength at Yield					
MD	2100	psi	14.5	MPa	ASTM D882
TD	2200	psi	15.2	MPa	ASTM D882
Tensile Elongation at Break					
MD	400	%	400	%	ASTM D882
TD	600	%	600	%	ASTM D882
1% Secant Modulus					
MD	44000	psi	303	MPa	ASTM D882
TD	49000	psi	338	MPa	ASTM D882
Elmendorf Tear Strength					
MD	210	g	210	g	ASTM D1922
TD	310	g	310	g	ASTM D1922
Optical					
Haze	5.5	%	5.5	%	ASTM D1003
Gloss, (45°)	75		75		ASTM D2457
Additive					
Slip	None		None		LYB Method
Antiblock	None		None		LYB Method

Manufacturer website: https://www.lyondellbasell.com/en/

Notes

Data obtained from 2.0 mil (51 micron) film produced on a blown film line with a 4" (102 mm) die, 370 °F (188 °C) melt temperature, 2.5:1 BUR, 0.025" die gap at 60 lbs/hr.

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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