

Petrothene GA1832

LyondellBasell Industries - Linear Low Density Polyethylene

Thursday, December 18, 2025

General Information

Product Description

The Petrothene GA1832 resin is a pelletized linear low density polyethylene selected by customers for applications that require maximum strength and toughness. This product offers excellent additive homogeneity, requires no transfer equipment modification, and facilitates clean and safe handling. Typical applications include cast stretch film for pallet utilization. The GA1832 resin offers enhanced film strength, drawdown, toughness, and heat seal strength.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Additive	• Antiblock: No	• Slip: No	
Uses	• Cast Film	• Flexible Packaging	• Stretch Wrap
Processing Method	• Cast Film	• Profile Extrusion	• Sheet Extrusion

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.918	g/cm ³	ASTM D792
Density (23°C, Base Resin)	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	168	MPa	ASTM D882
Secant Modulus - 1% Secant, TD	178	MPa	ASTM D882
Tensile Strength - MD (Break)	39.0	MPa	ASTM D882
Tensile Strength - TD (Break)	23.0	MPa	ASTM D882
Tensile Elongation - MD (Break)	480	%	ASTM D882
Tensile Elongation - TD (Break)	740	%	ASTM D882
Dart Drop Impact ²	100	g	ASTM D1709
Elmendorf Tear Strength - MD	310	g	ASTM D1922
Elmendorf Tear Strength - TD	760	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	75		ASTM D2457
Haze	1.40	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² F50