

Petrothene® GA502

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The PETROTHENE GA 502 series of resins are pelletized linear low density polyethylenes for applications requiring excellent drawdown and toughness. These pelletized products offer excellent additive homogeneity, require no transfer equipment modifications and facilitate clean and safe storage and handling. They can be used in either blown or cast film extrusion.

General Information	
Features	Food Contact Acceptable
	Good Drawdown
	Good Toughness
Uses	Cast Film
	Film
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1
Forms	Pellets
Processing Method	Blown Film
	Cast Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 38 µm	221	MPa	
1% Secant, TD : 38 µm	248	MPa	
Tensile Strength			ASTM D882
MD : Break, 38 µm	33.8	MPa	
TD : Break, 38 µm	24.8	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	750	%	
TD : Break, 38 µm	800	%	
Dart Drop Impact (38 µm, Blown Film)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	170	g	
TD : 38 µm	400	g	

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 µm, Blown Film)	60		ASTM D2457
Haze (38.1 µm, Blown Film)	12	%	ASTM D1003

Extrusion	Nominal Value	Unit
Melt Temperature	191 to 218	°C

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