

Petrothene® GA502023

Linear Low Density Polyethylene

LyondellBasell Industries

Message:

The Petrothene GA502 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 modification and facilitate clean and safe storage and handling. They can be used in either blown or cast film extrusion.

General Information	
Additive	Antiblock (5500 ppm) Slip (900 ppm)
Features	Antiblocking Food Contact Acceptable Good Drawdown Good Toughness Slip
Uses	Cast Film Film
Agency Ratings	FDA 21 CFR 177.1520
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	ASTM D882
Secant Modulus			
1% Secant, MD : 38 µm	221	MPa	
1% Secant, TD : 38 µm	248	MPa	ASTM D882
Tensile Strength			
MD : Break, 38 µm	33.8	MPa	
TD : Break, 38 µm	24.8	MPa	ASTM D882
Tensile Elongation			
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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