Petrothene



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Linear Low Density Polyethylene Film Extrusion Grade Melt Index: 2.0 Density: 0.918

**Applications** 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. GA502024 is formulated with higher antioxidant levels for use in cast film.

(+) 188 1699 6168

Regulatory The base resin GA502 meets the requirements of the Food and Drug Administration **Status** regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar product safety representative for more information.

The GA502 series resins exhibit excellent drawdown characteristics. Recommended Processing conditions are 375°- 425°F melt temperature and a 1.5-3.0:1 blow-up ratio. Specific **Techniques** recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known.

Typical Properties	<b>Property</b> Melt Index Density		Nominal Value 2.0 0.918	<b>Units</b> g/10 min g/cc	ASTM Test Method D1238 D1505
	Film				
	Gauge Blow-up Ratio Haze Gloss, 45° Dart Drop Impact Strength, F <sub>50</sub> Tensile Strength @ Break, MD (TD) Elongation @ Break, MD (TD) 1% Secant Modulus, MD (TD) Elmendorf Tear, MD (TD)		1.5	mil	
			2.1		
			12	%	D1003
			60		D523
			120	g	D1709/A
			4,900 (3,600)	psi	D882
			750 (800)	%	D882
			32,000 (36,000)	) psi	D638
			170 (400)	g	D1922
	Product	<u>GA502022</u>	<u>GA502023</u>	GA502024	<u>GA502119</u>
	Slip (ppm)	1,350	900	None	None
	Antiblock (ppm)	7,000	5,500	None	None

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