

Petrothene®

GA502

Linear Low Density Polyethylene
Blown/Cast 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 modifications and facilitate clean and safe storage and handling. They can be used in either blown or cast film extrusion. GA502024 is specifically formulated with extra antioxidant for use in cast film. It contains no other additives.

Regulatory Status

The GA502 series resins exhibit excellent drawdown characteristics. Recommended conditions are 375°-425°F melt temperature and a 1.5-3.0:1 blow-up ratio. Using proper techniques, these products can readily be drawn below 50 mil at optimum production rates. Specific recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known. For further suggestions, please contact your Equistar sales representative.

Processing Techniques

Recommended conditions are 400°-450°F melt temperature and a 1.5-3.0:1 blow-up ratio. Using proper techniques, these products can readily be drawn below 0.90 mil at optimum production rates. Specific recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

Property	Nominal Value	Units	ASTM Test Method
Melt Index	2.0	g/10 min	D 1238
Density	0.918	g/cc	D 1505
Film			
Gauge	1.5	mil	
Blow-up Ratio	2.1		
Haze	12	%	D 1003
Gloss, 45°	60		D 523
Dart Drop Impact Strength, F ₅₀	120	g	D 1709/A
Tensile Strength @ Break, MD (TD)	4,900 (3,600)	psi	D 882
Elongation @ Break, MD (TD)	750 (800)	%	D 882
1% Secant Modulus, MD (TD)	32,000 (36,000)	psi	D 638
Elmendorf Tear, MD (TD)	170 (400)	g	D 1922
Product	GA502022	GA502023	GA502024
Slip	High	Medium	None
Antiblock	High	Medium	None

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Lyondell Chemical Company
1221 McKinney, Suite 700
P.O. Box 2583
Houston, Texas 77252-2583
800.615.8999
<http://www.equistarchem.com>