Petrothene

Typical Properties



lyondellbasell

Linear Low Density Polyethylene Film Extrusion Grade Melt Index: 3.5 Density: 0.925

Applications GA503 is a medium density butene copolymer LLDPE resin with high draw. GA503 is typically selected by customers for stiff, thin blown films. GA503 contains an additive package to minimize discoloration and die build-up.

(+) 188 1699 6168 hongrunplastics.com

Regulatory
StatusGA503 series resins meet the requirements of the Food and Drug Administration 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.

Processing Techniques GA503 provides high output at low melt temperatures and without high pressure, high torque or shear-induced melt fracture. For improved drawdown without bubble breaks, GA503 can be blended with LDPE. It can also be blended with high performance LLDPE grades to reduce torque and horsepower requirements. Specific recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known.

Property* Melt Index	Nominal Value 3 5		Units	ASTM Test Method D1238
Density	0.925		g/cc	D1505
Film Thickness	0.5	1.5	mil	
Haze	25	30	%	D1003
Gloss	60	25		D2457
Tensile Strength @ Break, MD (TD)	1,400 (1,050)	4,800 (3,400)	psi	D882
Elongation @ Break, MD (TD)	500 (630)	690 (740)	%	D882
1% Secant Modulus, MD (TD)	36,600 (37,000)	44,500 (45,500)	psi	D882
Elmendorf Tear Strength, MD (TD)	40 (180)	100 (215)	g	D1922
Dart Drop Impact Strength, F ₅₀ ¹	30	110	ġ	D1709

* Testing was performed on film produced at a 2.5:1 BUR, 360°F (182°C) melt temperature, using an 8" die with 0.025" die gap, at 150 lb/hr.

¹ Estimated from TEDD value of 0.3 ft-lbs. for standard dart and 26" drop height.

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

Product	GA503027	GA503028
Slip (ppm)	1,500	800
Antiblock (ppm)	7,000	1,300
Processing Aid	Present	None