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Petrothene

# GA503

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.

### Regulatory Status

GA503 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.

## Typical Properties

Property* Melt Index Density	Nominal Value 3.5 0.925		Units g/10 min g/cc	ASTM Test Method D1238 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 <sub>50</sub> <sup>1</sup>	30 `	110 ` ′	g	D1709

<sup>\*</sup> 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.

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

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

<sup>&</sup>lt;sup>1</sup> Estimated from TEDD value of 0.3 ft-lbs. for standard dart and 26" drop height.