Petrothene

Typical

Properties

GA502



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.

Regulatory Status The base resin GA502 meets the requirements of the Food and Drug Administration 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.

Processing 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. Specific recommendations for type of resin and extrusion conditions can be made only when the end use, required properties and processing equipment are known.

ASTM Nominal Property Value Units **Test Method** Melt Index 2.0 g/10 min D1238 Density 0.918 D1505 g/cc Film Gauge 1.5 mil Blow-up Ratio 2.1 D1003 12 % Haze Gloss, 45° 60 D523 Dart Drop Impact Strength, F₅₀ 120 D1709/A g Tensile Strength @ Break, MD (TD) 4,900 (3,600) D882 psi Elongation @ Break, MD (TD) 750 (800) D882 % 1% Secant Modulus, MD (TD) 32,000 (36,000) D638 psi Elmendorf Tear, MD (TD) 170 (400) D1922 g GA502119X01 Product GA502022 GA502023 GA502024 Slip (ppm) 1,350 900 None None Antiblock (ppm) 7,000 5,500 None None



