Alathon

Typical

Properties



(+) 188 1699 6168 hongrunplastics.com

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High Density Polyethylene HMW Film Grade Density: 0.960 Melt Index: 0.075

- **Applications** Alathon L5906 is a high molecular weight high density polyethylene homopolymer with a broad bimodal molecular weight distribution. This resin exhibits excellent stiffness, very high tensile strength, and low gels. L5906 is selected by customers for use in draw tapes and paper replacement applications as well as other mono-and multi-layer films requiring both stiffness and toughness.
- Regulatory L5906 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This **Status** 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 Specific recommendations for processing L5906 can only be made when the processing conditions, **Techniques** equipment and end use are known.

> Nominal ASTM Units **Test Method** Property Value Melt Index 0.075 g/10 min D1238 Density 0.960 g/cc D1505 Film Properties* Dart Drop Impact Strength, F₅₀ 390 D1709 g Elmendorf Tear Strength, MD (TD) 20 (60) D1922 g Tensile Strength @ Yield, MD (TD) 5800 (5200) D882 psi Tensile Strength @ Break, MD (TD) 12,800 (10,000) D882 psi Elongation @ Break, MD (TD) 340 (340) % D882 Secant Modulus, MD (TD) 180,000 (189,000) D882 psi

*Data Obtained Under the Following Extrusion Conditions:

Alpine 200 mm 3 Layer Die (40/35/25); 3 Extruders: 65 mm / 75 mm / 50 mm; Die Gap = 1.5 mm; Film Thickness = 0.8 mil; 500 lbs/ hr; Internal Bubble Cooling; Neck Height = 8 x DD; Blow Up Ratio = 4:1

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