

Alathon® L 5440

High Density Polyethylene

Alathon®

L 5440

High Density Polyethylene
Blow Molding Grade
Melt Index 0.35 Density 0.954

Applications

ALATHON L 5440 is designed for high shear machines. It exhibits excellent color, low odor and excellent processing stability. Typical applications include general purpose, household chemicals, industrial chemicals, detergent, and motor oil bottles. L 5440 containing antistat is available as L 5440AS.

Certification

L 5440 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 sales representative for more information.

Processing Techniques

Specific recommendations for processing L 5440 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Physical Properties

| Property | Nominal Value | Units | ASTM Test Method |
|--|---------------|-------------------|------------------|
| Melt Index | 0.35 | g/10 min | D 1238 |
| Density | 0.954 | g/cm ³ | D 1505 |
| Tensile Strength @ Yield | 4,100 | psi | D 638 |
| Elongation @ Break | >600 | % | D 638 |
| Flexural Modulus | 178,000 | psi | D 790 |
| Tensile Impact | 161 | ft-lb/in. | D 1822 |
| Low Temperature Brittleness, F ₅₀ | <-76 | °C | D 746 |
| Heat Deflection Temperature @ 66 psi | 76 | °C | D 648 |
| Vicat Softening Point | 127 | °C | D 1525 |
| Hardness, Shore D | 67 | | D 2240 |
| Environmental Stress Crack Resistance, F ₅₀ | 50 | hrs | D 1693 |

The information on this document is, to our knowledge, true and accurate. However, since the particular uses and the actual conditions of use of our products are beyond our control, establishing satisfactory performance of our products for the intended application is the customer's sole responsibility. All uses of Equistar products and any written or oral information, suggestions or technical advice from Equistar are without warranty, express or implied, and are not an inducement to use any process or product in conflict with any patent.

Equistar materials are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Equistar makes no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.

More detailed safety and disposal information on our products is contained in the Material Safety Data Sheet (MSDS). All users of our products are urged to retain and use the MSDS. A MSDS is automatically distributed upon purchase/order execution. You may request an advance or replacement copy by calling our MSDS Hotline at (800) 700-0946.

©Alathon is a registered trademark of Equistar Chemicals, LP.