

## LyondellBasell Alathon® L5440 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

### Material Notes:

**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. **Regulatory Status**L 5440 meets the requirements of 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. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Alathon-L5440-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-L5440-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D1505
Environmental Stress Crack Resistance	50 hour	50 hour	F <sub>50</sub> ; ASTM D1693
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength, Yield	28.3 MPa	4100 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.23 GPa	178 ksi	ASTM D790
Tensile Impact	86.0 J/cm	161 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 Å°C	169 Å°F	ASTM D648
Vicat Softening Point	127 Å°C	261 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	F <sub>50</sub> ; ASTM D746

## Contact Songhan Plastic Technology Co.,Ltd.

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