

LyondellBasell Alathon® L5840 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON L 5840 is a lightweight resin that exhibits excellent color, low odor and provides processing stability. Typical applications include household chemicals, industrial chemicals, detergent, and motor oil bottles.**Regulatory Status**L 5840 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 5840 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-L5840-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D1505
Environmental Stress Crack Resistance	25 hour	25 hour	F ₅₀ ; ASTM D1693
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Tensile Strength, Yield	30.3 MPa	4400 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.45 GPa	211 ksi	ASTM D790
Tensile Impact	74.7 J/cm	140 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 Å°C	178 Å°F	ASTM D648
Vicat Softening Point	128 Å°C	262 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	F ₅₀ ; ASTM D746

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