

LyondellBasell Alathon® L5332CP High Density Polyethylene, Blow Molding Grade

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

Material Notes:

ALATHON L5332CP is bimodal molecular weight distribution, fractional melt index HDPE resin that exhibits an exceptional balance of environmental stress crack resistance and stiffness. Typical applications include blow molded containers for packaging household and agricultural chemicals, particularly those that are strong stress crack-inducing reagents. Regulatory Status: L5332CP 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. Specific recommendations for processing L5332CP 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-L5332CP-High-Density-Polyethylene-Blow-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D1505
ESCR 100% Igepal®	450 hour	450 hour	Bent Strip; ASTM D1693
Melt Flow	0.32 g/10 min	0.32 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638
Tensile Strength, Yield	22.4 MPa	3250 psi	ASTM D638
Elongation at Break	>= 800 %	>= 800 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
1% Secant Modulus	1230 MPa	179000 psi	ASTM D790
Tensile Impact	125 J/cm	235 ft-lb/in	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	62.0 °C	144 °F	ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525

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