

LyondellBasell Alathon® H5618 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Injection Molded

Material Notes:

ApplicationsALATHON H 5618 provides easy processing characteristics and exhibits excellent toughness properties and color as well as low odor and good processing stability. Typical applications include housewares, containers, caps and closures.Regulatory StatusH 5618 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 TechniquesSpecific recommendations for processing H 5618 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-H5618-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ASTM D1505
Melt Flow	18 g/10 min	18 g/10 min	ASTM D1238
Spiral Flow	33.0 cm	13.0 in	Measures the number on inches of flow produced when molten resin is injected into a long, spiral channel (0.625" insert), at a constant injection pressure of 1000 psi with a melt temperature of 440° F; Equistar

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	ASTM D2240
Tensile Strength at Break	27.6 MPa	4000 psi	ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.7 %	7.7 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1376 MPa	199600 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	1.15 GPa	167 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ASTM D648
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Brittleness Temperature
Thermal Properties

≤ -76.0 °C
Metric

≤ -105 °F
English

F₅₀; ASTM D746
Comments

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