

LyondellBasell Alathon® H5234 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON H 5234 is a high flow injection molding grade of resin designed for fast cycle and thin wall molding. It provides cold temperature impact resistance. Typical applications include frozen food, ice cream, and deli/condiment containers.**Regulatory Status**H 5234 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 H 5234 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-H5234-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	34 g/10 min	34 g/10 min	ASTM D1238
Spiral Flow	39.4 cm	15.5 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	67	67	ASTM D2240
Tensile Strength at Break	26.3 MPa	3820 psi	ASTM D638
Tensile Strength, Yield	27.4 MPa	3980 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.7 %	7.7 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1170 MPa	169000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	0.972 GPa	141 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM D648
Vicat Softening Point	121 °C	250 °F	ASTM D1525

Brittleness Temperature
Thermal Properties

≤ -76.0 °C
Metric

≤ -105 °F
English

F₅₀; ASTM D746
Comments

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China