

## LyondellBasell Alathon® H5520 High Density Polyethylene

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

### Material Notes:

ApplicationsALATHON H 5520 provides good processing characteristics and exhibits excellent toughness and color as well as low odor and good molded-part stability. Typical applications include housewares, caps, closures and various food containers.Regulatory StatusH 5520 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 5520 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-H5520-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-H5520-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	20 g/10 min	20 g/10 min	ASTM D1238
Spiral Flow	36.1 cm	14.2 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	65	65	ASTM D2240
Tensile Strength at Break	22.4 MPa	3250 psi	ASTM D638
Tensile Strength, Yield	28.7 MPa	4160 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	8.1 %	8.1 %	Crosshead speed - 2"min.; ASTM D638
1% Secant Modulus	1258 MPa	182500 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	1.04 GPa	151 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	126 °C	259 °F	ASTM D1525

Brittleness Temperature  
Thermal Properties

-68.0 Å°C  
Metric

-90.4 Å°F  
English

F<sub>50</sub>; ASTM D746  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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