

## LyondellBasell Alathon® ETP H4745 High Density Polyethylene

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

### Material Notes:

**Applications**ALATHON H 4745 is a new, multi-purpose, high-flow resin featuring enhanced cold temperature impact performance, enhanced processability and thermal stability for fast cycling and exhibits good color and organoleptic properties. Typical applications are cultured dairy containers, margarine containers, butter tubs and promotional drink cups. Freezer applications include ice cream, sherbet and other frozen dessert containers.**Regulatory Status**H 4745 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 4745 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-ETP-H4745-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-ETP-H4745-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	45 g/10 min	45 g/10 min	ASTM D1238
Spiral Flow	46.7 cm	18.4 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	62	62	ASTM D2240
Tensile Strength at Break	22.1 MPa	3200 psi	ASTM D638
Tensile Strength, Yield	25.0 MPa	3630 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	7.9 %	7.9 %	Crosshead speed - 2" min; ASTM D638
1% Secant Modulus	979 MPa	142000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	0.862 GPa	125 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	64.0 °C	147 °F	ASTM D648
Vicat Softening Point	121 °C	250 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

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