

LyondellBasell Alathon[®] ETP H5057 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON H 5057 is a multi-purpose high-flow resin that exhibits enhanced low temperature impact performance, enhanced processability and thermal stability for fast cycling in multi-cavity stack molds, good color and organoleptic properties. Typical applications are rigid food containers such as cultured dairy product containers, margarine tubs, butter tubs, small frozen food containers and promotional drink cups.**Regulatory Status**H 5057 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.**Processing Techniques**Specific recommendations for processing H 5057 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative.**Alathon[®] ETP (Enhanced Toughness and Processing), a Family of High Flow Resins**This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-ETP-H5057-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D1505
Melt Flow	57 g/10 min	57 g/10 min	ASTM D1238
Spiral Flow	53.8 cm	21.2 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	66	66	ASTM D2240
Tensile Strength at Break	25.4 MPa	3690 psi	ASTM D638
Tensile Strength, Yield	21.4 MPa	3100 psi	Crosshead speed - 2"min.; ASTM D638
Elongation at Yield	9.5 %	9.5 %	Crosshead speed - 2" min; ASTM D638
1% Secant Modulus	979 MPa	142000 psi	Crosshead speed - 0.5" min; ASTM D790
2% Secant Modulus	0.827 GPa	120 ksi	Crosshead speed - 0.5" min; ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 [°] C	162 [°] F	ASTM D648

Heat Capacity Point

125 $^{\circ}$ C
Metric

250 $^{\circ}$ F
English

ASTM D1695
Comments

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