

LyondellBasell Alathon® ETP H4837 High Density Polyethylene

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

Material Notes:

ApplicationsALATHON H 4837 is a high-flow “freezer” grade resin that exhibits enhanced cold temperature impact performance, enhanced processability and thermal stability, with good color and organoleptic properties. Typical applications are rigid food containers such as 4, 5, and 6-quart ice cream containers, which are produced at high speeds in fast cycling multi-cavity stack molds.**Regulatory Status**H 4837 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 4837 can only be made when the processing conditions, equipment and end use application are known. However, melt temperatures from 475°F to 535°F are recommended for initial start-ups. 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-H4837-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ASTM D1505
Melt Flow	40 g/10 min	40 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

Thermal Properties	Metric	English	Comments
Brittleness Temperature	$\leq -76.0 \text{ }^{\circ}\text{C}$	$\leq -105 \text{ }^{\circ}\text{F}$	F ₅₀ ; ASTM D746

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