

LyondellBasell Alathon[®] H6017 High Density Polyethylene, Injection Molding Grade

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

Material Notes:

ALATHON H6017 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 Status: H6017 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. Specific recommendations for processing H6017 can only be made when the processing conditions, equipment and end use application are known. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-H6017-High-Density-Polyethylene-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Bulk Density	0.593 - 0.625 g/cc	0.0214 - 0.0226 lb/in ³	ASTM D1895
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D1505
Melt Flow	18 g/10 min @Load 2.16 kg, Temperature 190 °C	18 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Spiral Flow	28.2 cm	11.1 in	Equistar test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ASTM D2240
Tensile Strength at Break	29.6 MPa	4300 psi	50 mm/min; ASTM D638
Elongation at Break	12 %	12 %	50 mm/min; ASTM D638
Tensile Modulus	0.8680 GPa	125.9 ksi	1% Secant; 50mm/min; ASTM D638
	1.001 GPa	145.2 ksi	50mm/min; ASTM D638
Flexural Modulus	1.118 GPa	162.2 ksi	2% Secant; 12.5 mm/min; ASTM D790
	1.369 GPa	198.5 ksi	1% Secant; 12.5 mm/min; ASTM D790
	1.474 GPa	213.8 ksi	12.5 mm/min; ASTM D790
Izod Impact, Notched	0.395 J/cm	0.740 ft-lb/in	ASTM D256
	5.34 J/cm	10.0 ft-lb/in	ASTM D4812
	@Temperature -18.0 °C	@Temperature -0.400 °F	

Mechanical Properties	Metric	English	Comments
Melting Point	133.0 Â°C	271.4 Â°F	ASTM D3418
Crystallization Temperature	115.7 Â°C	240.3 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	74.0 Â°C	165 Â°F	ASTM D648
Vicat Softening Point	128 Â°C	262 Â°F	ASTM D1525
Brittleness Temperature	<= -76.0 Â°C	<= -105 Â°F	ASTM D746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	232 Â°C	450 Â°F	
Middle Barrel Temperature	243 Â°C	470 Â°F	
Front Barrel Temperature	246 Â°C	475 Â°F	
Nozzle Temperature	246 Â°C	475 Â°F	

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