

LyondellBasell Alathon[®] H4620 High Density Polyethylene, Injection Molding Grade

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

Material Notes:

Alathon H4620 is a medium-flow resin that exhibits good cold temperature impact performance, enhanced processing and thermal stability. Typical applications are thinner-walled parts that require chemical resistance. Regulatory Status: H4620 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 H4620 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-H4620-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	0.946 g/cc	0.0342 lb/in ³	ASTM D1505
Melt Flow	19.5 g/10 min @Load 2.16 kg, Temperature 190 °C	19.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
Spiral Flow	30.5 cm	12.0 in	Equistar test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D2240
Tensile Strength at Break	13.0 MPa	1880 psi	50 mm/min; ASTM D638
Tensile Strength, Yield	23.6 MPa	3420 psi	50 mm/min; ASTM D638
Elongation at Break	130 %	130 %	50 mm/min; ASTM D638
Elongation at Yield	10 %	10 %	50 mm/min; ASTM D638
Tensile Modulus	0.8984 GPa	130.3 ksi	1% Secant; 50mm/min; ASTM D638
	1.140 GPa	165.3 ksi	50mm/min; ASTM D638
Flexural Modulus	0.7936 GPa	115.1 ksi	2% Secant; 12.5 mm/min; ASTM D790
	0.9398 GPa	136.3 ksi	1% Secant; 12.5 mm/min; ASTM D790
	1.085 GPa	157.4 ksi	12.5 mm/min; ASTM D790
Izod Impact, Notched	0.443 J/cm	0.830 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	ASTM D4812

Thermal Properties	Metric	English	Comments
Melting Point	126.3 Â°C	259.3 Â°F	ASTM D3418
Crystallization Temperature	112.4 Â°C	234.3 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	64.0 Â°C	147 Â°F	ASTM D648

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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