

LyondellBasell Alathon® H5220 High Density Polyethylene, Injection Molding Grade

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

Material Notes:

Applications Alathon H5220 provides easy processing characteristics and exhibits excellent toughness properties and color as well as low odor and good processing stability. Typical applications include housewares, containers, caps and closures. Regulatory Status H5220 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520. Processing Techniques Specific recommendations for processing H5220 can only be made when the processing conditions, equipment and end-use applications are known.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-H5220-High-Density-Polyethylene-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Bulk Density	0.529 - 0.593 g/cc	0.0191 - 0.0214 lb/in ³	ASTM D1895
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	20 g/10 min @Load 0.980 kg, Temperature 190 °C	20 g/10 min @Load 2.16 lb, Temperature 374 °F	ASTM D1238
Spiral Flow	29.5 cm	11.6 in	Equistar

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D2240
Tensile Strength, Yield	26.1 MPa	3790 psi	50 mm/min, Type IV; ASTM D4796
Elongation at Yield	11 %	11 %	50 mm/min, Type IV; ASTM D638
Tensile Modulus	1.00 GPa	145 ksi	1% Secant, 50mm/min; ASTM D638
	1.26 GPa	183 ksi	50 mm/min; ASTM D638
Flexural Modulus	1.25 GPa	181 ksi	ASTM D790
1% Secant Modulus	1080 MPa	157000 psi	12.5mm/min; ASTM D790
2% Secant Modulus	0.903 GPa	131 ksi	12.5mm/min; ASTM D790
Izod Impact, Notched	0.379 J/cm @Temperature 23.0 °C	0.710 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB @Temperature -18.0 °C	NB @Temperature -0.400 °F	ASTM D4812

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	130.2 Â°C	266.4 Â°F	ASTM D3418
Crystallization Temperature	115.4 Â°C	239.7 Â°F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	72.8 Â°C	163 Â°F	ASTM D648
Vicat Softening Point	124 Â°C	256 Â°F	ASTM D1525
Brittleness Temperature	<= -76.1 Â°C	<= -105 Â°F	F₅₀; ASTM D746

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

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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