

LyondellBasell Alathon® H4262 High Density Polyethylene, Injection Molding Grade (discontinued **)

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

Material Notes:

Applications Alathon H4262 is a high-flow resin that exhibits very good cold temperature impact performance, optimum processing and thermal stability, with good color and organoleptic properties. Typical customer applications include rigid food packaging such as four, five and six-quart ice cream containers produced at high speeds in fast-cycling, multi-cavity stack molds. Regulatory Status H4262 meets the requirements of the Food and Drug Administration regulation 21 FR 177.1520. Processing Techniques Specific recommendations for processing H4262 can only be made when the processing conditions, equipment and end use are known.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Alathon-H4262-High-Density-Polyethylene-Injection-Molding-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.593 - 0.625 g/cc	0.0214 - 0.0226 lb/in ³	ASTM D1895
Density	0.942 g/cc	0.0340 lb/in ³	ASTM D1505
Melt Flow	62 g/10 min @Load 0.980 kg, Temperature 190 °C	62 g/10 min @Load 2.16 lb, Temperature 374 °F	ASTM D1238
Spiral Flow	47.5 cm	18.7 in	Equistar

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D2240
Tensile Strength at Break	18.5 MPa	2690 psi	50 mm/min, Type IV; ASTM D4796
Elongation at Break	5.0 %	5.0 %	50 mm/min, Type IV; ASTM D638
Tensile Modulus	0.7977 GPa	115.7 ksi	1% Secant, 50mm/min; ASTM D638
	1.008 GPa	146.2 ksi	50 mm/min; ASTM D638
Flexural Modulus	0.9708 GPa	140.8 ksi	ASTM D790
1% Secant Modulus	840.5 MPa	121900 psi	12.5mm/min; ASTM D790
2% Secant Modulus	0.9018 GPa	130.8 ksi	12.5mm/min; ASTM D790
Izod Impact, Notched	0.299 J/cm @Temperature 23.0 °C	0.560 ft-lb/in @Temperature 73.4 °F	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812

Mechanical Properties	@Temperature -18.0 °C Metric	@Temperature -0.400 English	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	125.4 °C	257.7 °F	ASTM D3418
Crystallization Temperature	112.5 °C	234.5 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	62.2 °C	144 °F	ASTM D648
Vicat Softening Point	116 °C	241 °F	ASTM D1525

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	

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

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