

Alathon® ETP H4262

High Density Polyethylene
LyondellBasell Industries

Message:

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.

General Information			
Features	Fast Molding Cycle		
	Good Colorability		
	Good Organoleptic Properties		
	Good Processing Stability		
	Good Thermal Stability		
	High Flow		
	Low Temperature Impact Resistance		
Uses	Food Containers		
	Thin-walled Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ASTM D1505
Apparent Density	0.59 to 0.63	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR)	62	g/10 min	ASTM D1238
Spiral Flow	47.5	cm	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	1010	MPa	
1% Secant	798	MPa	
Tensile Elongation ² (Break)	5.0	%	ASTM D638
Flexural Modulus ³			ASTM D790
--	971	MPa	
1% Secant	840	MPa	
2% Secant	716	MPa	
Flexural Strength ⁴ (Break)	18.5	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	30	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	62.0	°C	ASTM D648
Vicat Softening Temperature	116	°C	ASTM D1525
Peak Melting Temperature	125	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	113	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	246	°C	
Cylinder Zone 2 Temp.	246	°C	
Cylinder Zone 3 Temp.	243	°C	
Cylinder Zone 4 Temp.	232	°C	
Cylinder Zone 5 Temp.	232	°C	
Adapter Temperature	246	°C	
NOTE			
1.	Type I, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	13 mm/min		
4.	50 mm/min		

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