

Alathon® ETP H4745

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON H 4745 is a multi-purpose, high-flow resin featuring enhanced cold temperature impact performance, enhanced processability and thermal stability for fast cycling and exhibits good color and organoleptic properties. Typical applications are cultured dairy containers, margarine containers, butter tubs and promotional drink cups. Freezer applications include ice cream, sherbet and other frozen dessert containers.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Organoleptic Properties		
	Good Processability		
	Good Thermal Stability		
	High Flow		
	Low Temperature Impact Resistance		
Uses	Containers		
	Food Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ASTM D1505
Apparent Density	0.59 to 0.63	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	45	g/10 min	ASTM D1238
Spiral Flow	48.8	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	724	MPa	
1% Secant	609	MPa	
Tensile Strength ² (Break)	24.5	MPa	ASTM D638
Tensile Elongation ³ (Break)	6.3	%	ASTM D638
Flexural Modulus ⁴			ASTM D790
--	965	MPa	
1% Secant	979	MPa	
2% Secant	765	MPa	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	24	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	63.9	°C	ASTM D648
Vicat Softening Temperature	121	°C	ASTM D1525
Peak Melting Temperature	112 to 126	°C	ASTM D3418
Injection	Nominal Value	Unit	
Rear Temperature	232	°C	
Middle Temperature	243	°C	
Front Temperature	246	°C	
Nozzle Temperature	246	°C	
NOTE			
1.	Type I, 50 mm/min		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		
4.	13 mm/min		

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