

Alathon® ETP H5057

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON H5057 is a multi-purpose high-flow resin that exhibits enhanced low temperature impact performance, enhanced processing and thermal stability for fast cycling in multi-cavity stack molds, good color and organoleptic properties. Typical applications are rigid food containers such as cultured dairy product containers, margarine tubs, butter tubs, small frozen food containers and promotional drink cups.

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		
	Cups		
	Food Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.948	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)	57	g/10 min	ASTM D1238
Spiral Flow	53.8	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	795	MPa	
1% Secant	683	MPa	
Tensile Strength ² (Break)	19.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.1	%	ASTM D638
Flexural Modulus ⁴			ASTM D790
--	1050	MPa	
1% Secant	972	MPa	

2% Secant	820	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	330	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	64.0	°C	ASTM D648
Vicat Softening Temperature	118	°C	ASTM D1525
Peak Melting Temperature	126	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	113	°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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