

Alathon® H6017

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON H6017 provides good processing characteristics and exhibits excellent toughness and color as well as low odor and good molded-part stability. Typical applications include housewares, caps, closures and various food containers.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	Good Processing Stability		
	Good Stiffness		
	Homopolymer		
	Low to No Odor		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	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)	18	g/10 min	ASTM D1238
Spiral Flow	28.2	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	1000	MPa	
1% Secant	868	MPa	
Tensile Strength ² (Break)	29.6	MPa	ASTM D638
Tensile Elongation ³ (Break)	12	%	ASTM D638
Flexural Modulus ⁴			ASTM D790
--	1470	MPa	
1% Secant	1370	MPa	
2% Secant	1120	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	39	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	550	J/m	ASTM D4218
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	74.0	°C	ASTM D648
Brittleness Temperature	< -76.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ASTM D1525
Peak Melting Temperature	116 to 133	°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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