

Alathon® H6030

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON H 6030 is a homopolymer that provides enhanced processability, excellent stiffness and short molding cycles. Typical applications include thin wall and deep-draw.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Processability		
	Good Stiffness		
	Homopolymer		
Uses	Thin-walled Parts		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.965	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)	30	g/10 min	ASTM D1238
Spiral Flow	39.9	cm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹			ASTM D638
--	1080	MPa	
1% Secant	931	MPa	
Tensile Strength (Break)	28.3	MPa	ASTM D638
Tensile Elongation ² (Break)	4.4	%	ASTM D638
Flexural Modulus ³			ASTM D790
--	1660	MPa	
1% Secant	1540	MPa	
2% Secant	1290	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	280	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	82.8	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525

Peak Melting Temperature	132	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	117	°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.	13 mm/min		

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