

Alathon® H5618

High Density Polyethylene
LyondellBasell Industries

Message:

ALATHON H5618 provides easy processing characteristics and exhibits excellent toughness properties and color as well as low odor and good processing stability. Typical applications include housewares, containers, caps and closures.

General Information			
UL YellowCard	E62552-247282		
Features	Food Contact Acceptable		
	Good Processability		
	Good Processing Stability		
	Good Toughness		
	Low to No Odor		
Uses	Caps		
	Closures		
	Containers		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Apparent Density	0.53 to 0.59	g/cm ³	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	18	g/10 min	ASTM D1238
Spiral Flow	29.7	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
--	1050	MPa	
1% Secant	845	MPa	
Tensile Strength ²			ASTM D638
Yield	29.2	MPa	
Break	24.0	MPa	
Tensile Elongation ³			ASTM D638
Yield	8.0	%	
Break	62	%	

Flexural Modulus ⁴			ASTM D790
--	1490	MPa	
1% Secant	1410	MPa	
2% Secant	1180	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	31	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)	72.8	°C	ASTM D648
Brittleness Temperature	< -76.1	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Peak Melting Temperature	130	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	115	°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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