

# Alathon® H5520

High Density Polyethylene  
LyondellBasell Industries

## Message:

ALATHON H5520 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	Food Contact Acceptable		
	Good Processability		
	Good Toughness		
	Low to No Odor		
Uses	Caps		
	Closures		
	Containers		
	Food Containers		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm <sup>3</sup>	ASTM D1505
Apparent Density	0.59 to 0.63	g/cm <sup>3</sup>	ASTM D1895
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Spiral Flow	37.6	cm	Internal Method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>			ASTM D638
--	858	MPa	
1% Secant	745	MPa	
Tensile Strength <sup>2</sup> (Break)	27.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Yield)	9.0	%	ASTM D638
Flexural Modulus <sup>4</sup>			ASTM D790
--	1250	MPa	
1% Secant	1150	MPa	
2% Secant	967	MPa	
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (23°C)	29	J/m	ASTM D256
Unnotched Izod Impact (-18°C)	750	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	72.0	°C	ASTM D648
Brittleness Temperature	-20.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ASTM D1525
Peak Melting Temperature	115 to 129	°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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