

# Moplen HP401H

Polypropylene Homopolymer

LyondellBasell Industries

## Message:

Lyondellbasell Australia's polypropylene grade HP401H is a low flow homopolymer with a conventional molecular weight distribution and is formulated with a general purpose additive package. HP401H is designed principally for the production of sheet for subsequent forming operations into packaging containers. The flow level has been chosen to provide a good balance between hot melt strength during processing and high production rates. Sheet and formed containers produced from HP401H exhibit an attractive balance of rigidity, clarity and impact performance.

General Information			
Additive	Unspecified Additive		
Features	Good Impact Resistance		
	Good Melt Strength		
	Good Processability		
	Good Stiffness		
	Homopolymer		
	Low Flow		
Uses	Containers		
	Packaging		
	Sheet		
Processing Method	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	33.0	MPa	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	5.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	82.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	51.0	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306

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