



Moplen HP401H

Polypropylene, Homopolymer

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Features	Homopolymer, Good Impact Resistance , Good Processability, Good Stiffness

Typical Properties	Method	Value	Unit
Physical			
Density (Method D)	ISO 1183	0.90	g/cm ³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	2.2	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	33.0	MPa
Flexural modulus	ISO 178	1400	MPa
Impact			
Notched izod impact strength (+23 °C, Type 1, Notch A)	ISO 180	5.0	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	73	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	82	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	51	°C
Vicat softening temperature	ISO 306	155	°C

Notes

Typical properties; not to be construed as specifications.