

LyondellBasell® HP401H

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. Applications: Thermoformed Food Containers.
Information provided by LyondellBasell.

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	Method D; ISO 1183-1

Melt Flow

2.2 g/10 min
@Load 2.16 kg,
Temperature 230 °C

2.2 g/10 min
@Load 4.76 lb,
Temperature 446 °F

ISO 1133-1

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	ISO 868

Tensile Strength, Yield

33.0 MPa

4790 psi

ISO 527-1,-2

Flexural Modulus

1.45 GPa

210 ksi

ISO 178

Izod Impact, Notched (ISO)

6.00 kJ/m²
@Temperature 23.0 °C

2.86 ft-lb/in²
@Temperature 73.4 °F

ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	91.0 °C	196 °F	unannealed; ISO 75B-1,-2

Vicat Softening Point

155 °C

311 °F

ISO 306

Descriptive Properties			
Processing Method	Extrusion blow molding, thermoforming		