

Technical Data Sheet

Moplen HP301R

Polypropylene, Homopolymer



Product Description

LyondellBasell Australia's polypropylene grade *Moplen* HP301R is a high flow homopolymer with a modified molecular weight distribution and is formulated with a general-purpose additive package. *Moplen* HP301R is primarily intended to be used for fast cycle injection moulding where good flow and low warpage is important. Typical applications include closures, items having flat surfaces prone to warping, and homopolymer applications requiring good toughness.

Regulatory Status

For regulatory compliance information, see *Moplen* HP301R [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Australia and New Zealand
Application	Caps & Closures; TWIM Food Containers
Market	Consumer Products; Rigid Packaging
Processing Method	Injection Molding
Attribute	Controlled Rheology; Fast Cycle (Production); High Flow

Typical Properties	Nominal		Test Method
	Value	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	22	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1300	MPa	ISO 178
Tensile Stress at Yield	32	MPa	ISO 527-1, -2
Impact			
Notched Izod Impact Strength, (23 °C)	2.5	kJ/m ²	ISO 180/1A
Hardness			
Shore Hardness, (Shore D)	74		ISO 868
Thermal			
Vicat Softening Temperature	153	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	75	°C	ISO 75B-1, -2

Notes

These are typical property values not to be construed as specification limits.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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