

Technical Data Sheet

Moplen HP742U



Polypropylene, Homopolymer

Product Description

LyondellBasell Australia's Polypropylene grade *Moplen* HP742U is a very high flow homopolymer with a modified molecular weight. *Moplen* HP742U has been formulated for use in thin walled packaging containers where rapid cycle times are required together with consistent performance, low organoleptic properties (odour and taint) and a balanced level of mechanical properties.

Regulatory Status

For regulatory compliance information, see *Moplen* HP742U [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Australia and New Zealand
Application	Containers; TWIM Food Containers
Market	Rigid Packaging
Processing Method	Injection Molding
Attribute	Fast Cycle (Production); Good Moldability; High Flow; Homopolymer; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	90	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1850	MPa	ISO 178
Tensile Stress at Yield	38	MPa	ISO 527-1, -2
Impact			
Notched Izod Impact Strength, (23 °C)	2.2	kJ/m ²	ISO 180/1A
Hardness			
Shore Hardness, (Shore D)	75		ISO 868
Thermal			
Vicat Softening Temperature	150	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	102	°C	ISO 75B-1, -2