

Technical Data Sheet

Moplen HE649T



Polypropylene, Homopolymer

Product Description

LyondellBasell Australia's Polypropylene grade *Moplen* HE649T is a high flow homopolymer with improved impact and clarity. *Moplen* HE649T has been formulated for use in houseware applications where rapid cycle times are required together with a balanced level of mechanical properties.

Regulatory Status

For regulatory compliance information, see *Moplen* HE649T [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)	50	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1700	MPa	ISO 178
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
Impact			
Notched Izod Impact Strength, (23 °C)	2.4	kJ/m ²	ISO 180/1A
Hardness			
Shore Hardness, (Shore D)	75		ISO 868
Thermal			
Vicat Softening Temperature	148	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2

Notes

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