

# Moplen HP640T

Polypropylene Homopolymer

LyondellBasell Industries

## Message:

LyondellBasell Australia's polypropylene grade HP640T is an extra high flow homopolymer with a modified molecular weight distribution and is formulated with a general-purpose additive package. HP640T also contains nucleation additives. HP640T has been formulated for use in thin walled packaging containers where rapid cycle times are required together with consistent performance, rapid setup, easy mould release, low warpage, and a balanced level of mechanical properties.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Impact Resistance		
	Good Mold Release		
	High Flow		
	Homopolymer		
	Low Warpage		
	Nucleated		
Uses	Containers		
	Food Containers		
	Thin-walled Containers		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 177.1520(a) 1		
	FDA 21 CFR 177.1520(c) 1.1		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	60	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	73		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	35.0	MPa	ISO 527-2
Flexural Modulus	1650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	1.5	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A
Vicat Softening Temperature	150	°C	ISO 306/A

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#### Recommended distributors for this material

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