



Moplen HP640T

Polypropylene, Homopolymer

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Processing Methods	Injection Molding
Features	Fast Cycle (Production) , High Flow , Homopolymer, Good Impact Resistance , Good Mold Release, Nucleated, Low Warpage
Typical Customer Applications	Containers, TWIM Food Containers

Typical Properties	Method	Value	Unit
Physical			
Density (Method D)	ISO 1183	0.90	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	60	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	35.0	MPa
Flexural modulus	ISO 178	1650	MPa
Impact			
Notched izod impact strength (23 °C, Type 1, Notch A)	ISO 180	1.5	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	73	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	94	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	58	°C
Vicat softening temperature (Method A)	ISO 306	150	°C

Additional Properties

Suitable for the production of articles for food contact use. As supplied in natural form, meets the requirements of Australian Standard 2070 - 1999, "Plastics Materials for Food Contact Use". The base polymer complies with the United States of America Food and Drug Administration (FDA) Code of Federal Regulations 21 CFR177.1520 (a)(1) and (c)1.1. All other components used in the formulation meet the relevant FDA requirements for use in food contact applications. Conformity with these requirements should not be assumed for other variants and should be investigated with the appropriate supply source.

Notes

Typical properties; not to be construed as specifications.