

Technical Data Sheet

Moplen HP744T

Polypropylene, Homopolymer



Product Description

LyondellBasell Australia's HP744T is a high melt flow, ex-reactor nucleated homopolymer. HP744T has high stiffness, very low organoleptic properties and improved anti-tiger stripe performance. HP744T has been formulated for use in automotive, compounding and thin wall injection moulding applications, where rapid cycle times are required together with consistent performance and a balanced level of mechanical properties.

Regulatory Status

For regulatory compliance information, see *Moplen* HP744T [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)	70	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1950	MPa	ISO 178
Tensile Stress at Yield	38	MPa	ISO 527-1, -2
Impact			
Notched Izod Impact Strength, (23 °C)	2	kJ/m ²	ISO 180/1A
Hardness			
Shore Hardness, (Shore D)	72		ISO 868
Thermal			
Vicat Softening Temperature	151	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	105	°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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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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