

Technical Data Sheet

Moplen HP555E



Polypropylene, Homopolymer

Product Description

LyondellBasell Australia's Polypropylene grade HP555E is a very low flow homopolymer with a conventional molecular weight distribution and is formulated with an enhanced process stability additive package. HP555E is designed for extrusion processes which demand high melt strength and melt stability characteristics. End use products typically made from HP555E include strapping, mechanically fibrillated yarns, profiles and blow moulded packaging.

Regulatory Status

For regulatory compliance information, see *Moplen* HP555E [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Australia and New Zealand
Application	Panels & Profiles; Strapping
Market	Industrial Packaging; Industrial, Building & Construction; Rigid Packaging; Textile
Processing Method	Extrusion Blow Molding; Sheet; Thermoforming
Attribute	Good Melt Strength; High Melt Stability; Low Flow

Typical Properties	Nominal		Test Method
	Value	Units	
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	0.80	g/10 min	ISO 1133-1
Density, (23 °C, Method D)	0.90	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1450	MPa	ISO 178
Tensile Stress at Yield	33	MPa	ISO 527-1, -2
Impact			
Notched Izod Impact Strength, (23 °C)	9	kJ/m ²	ISO 180/1A
Hardness			
Shore Hardness, (Shore D)	75		ISO 868
Thermal			
Vicat Softening Temperature	155	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	92	°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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Users should review the applicable Safety Data Sheet before handling the product.

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (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.

The product(s) may not be used in:

- (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.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

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