



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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Asia-Pacific, Australia/NZ
Features	Low Flow , Homopolymer, High Melt Stability, Good Melt Strength
Typical Customer Applications	Blow Moulding Applications, Panels & Profiles, Strapping

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	0.80	g/10 min
Mechanical			
Tensile Stress at Yield	ISO 527-1, -2	33.0	MPa
Flexural modulus	ISO 178	1400	MPa
Impact			
Notched izod impact strength (23 °C, Type 1, Notch A)	ISO 180	6.5	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	73	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	82	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	51	°C
Vicat softening temperature (Method A)	ISO 306	155	°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.