

Moplen HP555E

Polypropylene Homopolymer

LyondellBasell Industries

Message:

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.

General Information			
Additive	Processing Aid		
Features	Food Contact Acceptable		
	Good Melt Strength		
	Good Processing Stability		
	High Melt Stability		
	Homopolymer		
	Low Flow		
Uses	Blow Molding Applications		
	Packaging		
	Profiles		
	Reinforced Panels		
	Strapping		
	Yarn		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 177.1520(a) 1		
	FDA 21 CFR 177.1520(c) 1.1		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183/D
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	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)	33.0	MPa	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	82.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	51.0	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306/A

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