

Moplen HP644H

Polypropylene Homopolymer

LyondellBasell Industries

Message:

LyondellBasell Australia's Polypropylene grade HP644H is a low flow homopolymer with a conventional molecular weight distribution and is formulated with a general-purpose additive package. HP644H also contains nucleation and slip additives. HP644H is primarily designed for injection moulding and extrusion applications. End use products typically made from HP644H include closures and extruded profiles.

General Information			
Additive	Nucleating Agent		
	Slip		
	Unspecified Additive		
Features	Food Contact Acceptable		
	Homopolymer		
	Low Flow		
	Nucleated		
	Slip		
Uses	Caps		
	Closures		
	Profiles		
	Reinforced Panels		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 177.1520(a) 1		
	FDA 21 CFR 177.1520(c) 1.1		
Processing Method	Extrusion		
	Injection Molding		
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)	2.2	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)	34.0	MPa	ISO 527-2
Flexural Modulus	1650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	94.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	58.0	°C	ISO 75-2/A
Vicat Softening Temperature	155	°C	ISO 306/A

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