

Moplen HP400H

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP400H is a homopolymer for extrusion applications. Moplen HP400H exhibits easy processability and a good stiffness/impact balance at ambient temperature. The main applications of Moplen HP400H are thermoformed tubs and containers, medium draw trays and blister packs, flowerpots and small extrusion blow moulded bottles. It is suitable for compounding.

General Information			
Features	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Homopolymer		
Uses	Caps		
	Closures		
	Containers		
	Household Goods		
Agency Ratings	AS 2070-1999		
	FDA 21 CFR 177.1520(a) 1		
	FDA 21 CFR 177.1520(c) 1.1		
Forms	Pellets		
Processing Method	Compounding		
	Extrusion		
	Extrusion Blow Molding		
	Thermoforming		
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)	2.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	2.70	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2
Tensile Stress (Yield)	34.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2

Yield	11	%	
Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	90	kJ/m ²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	150	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	107		ASTM D2457
Haze (1000 µm)	45	%	ASTM D1003

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