

Moplen HP640J

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP640J is a nucleated homopolymer for extrusion and thermoforming applications.
Moplen HP640J exhibits a good stiffness and transparency.
The main applications of Moplen HP640J are fruit baskets, trays, transparent drinking cups and containers. Moplen HP640J is a developmental grade

General Information			
Additive	Nucleating Agent		
Features	Good Stiffness		
	Homopolymer		
	Medium Clarity		
	Nucleated		
Uses	Containers		
	Cups		
	Household Goods		
Processing Method	Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.2	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.30	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	78.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2
Tensile Stress (Yield)	37.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	9.0	%	
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 (23°C)	190	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	90.0	°C	ISO 75-2/B

Vicat Softening Temperature			
--	154	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	113		ASTM D2457
Haze (1000 μm)	30	%	ASTM D1003

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