



Moplen HP640J

Polypropylene, Homopolymer

Product Description

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

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Extrusion Thermoforming
Typical Customer Applications	Housewares

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	3.2	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	4.3	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1600	MPa
Tensile Stress at Yield	ISO 527-1, -2	37	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	9	%
Impact			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	190	kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	4	kJ/m ²
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	78	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	154	°C
(B50 (50°C/h 50N))		94	°C
Optical			
Haze (1 mm)	ASTM D 1003	30	%
Gloss (60°)	ASTM D 2457	113	%

Notes

Typical properties; not to be construed as specifications.