

## Technical Data Sheet

### Moplen HP649J



Polypropylene, Homopolymer

#### Product Description

Moplen HP649J is a nucleated homopolymer for extrusion and thermoforming applications.

Moplen HP649J exhibits a good stiffness and transparency.

The main applications of Moplen HP649J are fruit baskets, trays, transparent drinking cups and containers.

<b>Status</b>	Commercial: Active
<b>Availability</b>	Africa-Middle East; Europe
<b>Application</b>	Clear Containers; Thermoformed Food Containers
<b>Market</b>	Rigid Packaging
<b>Processing Method</b>	Sheet and Profile Extrusion; Thermoforming
<b>Attribute</b>	BMMF free; Homopolymer; Medium Stiffness; Medium Transparency; Nucleated

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	3.2	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Tensile Modulus	1600	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C)	37	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	7	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness, (H 358/30)	78	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature, (A50)	154	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2
<b>Optical</b>			
Haze, (1 mm)	30	%	ASTM D1003
Gloss, (60°)	113	%	ASTM D2457