



## Moplen HP400H

### Polypropylene, Homopolymer

#### Product Description

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.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Methods</b>	Extrusion Compounding, Extrusion Blow Molding, Extrusion Thermoforming
<b>Typical Customer Applications</b>	Caps & Closures, Housewares, Opaque Containers

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.9	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	2	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	2.7	cm <sup>3</sup> /10min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1400	MPa
Tensile Stress at Yield	ISO 527-1, -2	34	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
<b>Impact</b>			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	No Break	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise)		90	kJ/m <sup>2</sup>
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	4	kJ/m <sup>2</sup>
<b>Hardness</b>			
Ball indentation hardness (H 358/30)	ISO 2039-1	70	MPa
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	80	°C
Vicat softening temperature (B50 (50°C/h 50N))	ISO 306	80	°C
(A50 (50°C/h 10N))		150	°C
<b>Optical</b>			
Haze (1 mm)	ASTM D 1003	45	%
Gloss (60°)	ASTM D 2457	107	%

#### Notes

Typical properties; not to be construed as specifications.