



## Moplen HP456J

### Polypropylene, Homopolymer

#### Product Description

Moplen HP456J is used in extrusion and thermoforming applications. It is formulated with a low water-carry-over additive package. Typical applications are monofilaments, ropes and tapes.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Method</b>	Tapes & Raffia, Extrusion Thermoforming
<b>Typical Customer Applications</b>	Raffia/Tapes/Strapping, Artificial Grass, Geotextile & Agriculture

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	3.4	g/10 min
Melt volume flow rate (230°C/2.16 kg)	ISO 1133	4.6	cm <sup>3</sup> /10min
<b>Mechanical</b>			
Tensile Modulus	ISO 527-1, -2	1500	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	10	%
<b>Impact</b>			
Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	190	kJ/m <sup>2</sup>
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	4.0	kJ/m <sup>2</sup>
<b>Hardness</b>			
Ball indentation hardness (H 358/30)	ISO 2039-1	74	MPa
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	97	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	154	°C
(B50 (50°C/h 50N))		92	°C

#### Notes

Typical properties; not to be construed as specifications.

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Unless specifically indicated, the grades mentioned are not suitable for applications in the pharmaceutical/medical sector.

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