



Moplen HP401R

Polypropylene, Homopolymer

Product Description

Moplen HP401R is a homopolymer suitable for injection moulding applications. It exhibits a high fluidity combined with a good stiffness. Moplen HP401R is suitable for food contact.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East
Processing Method	Injection Molding
Features	High Flow , Homopolymer, Good Stiffness
Typical Customer Applications	Furniture, Housewares

Typical Properties

Physical

	Method	Value	Unit
Density	ISO 1183	0.905	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	25	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	34	cm ³ /10min

Mechanical

Tensile Modulus	ISO 527-1, - 2	1350	MPa
Tensile Stress at Yield	ISO 527-1, - 2	32	MPa
Tensile Strain at Break	ISO 527-1, - 2	> 50	%
Tensile Strain at Yield	ISO 527-1, - 2	10	%

Impact

Charpy unnotched impact strength (23 °C, Type 1, Edgewise)	ISO 179	105	kJ/m ²
(0 °C, Type 1, Edgewise)		25	kJ/m ²
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	2	kJ/m ²

Hardness

Ball indentation hardness (H 358/30)	ISO 2039-1	70	MPa
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Thermal

Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, - 2	90	°C
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Vicat softening temperature

ISO 306

(B50 (50°C/h 50N))

85 °C

(A50 (50°C/h 10N))

154 °C

Notes

Typical properties; not to be construed as specifications.

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LyondellBasell markets this product through the following entities:

Equistar Chemicals, LP
Basell Sales & Marketing Company B.V.
Basell Asia Pacific Limited
Basell International Trading FZE
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Users should review the applicable Material Safety Data Sheet before handling the product.

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