



Thursday, March 28, 2002

Moplen HP500N

Units:

Basell Polyolefins - Polypropylene Homopolymer

Actions

-- - ASTM

- MSDS

Product Description

"Moplen" HP500N is a homopolymer suitable for injection moulding applications. It exhibits a good fluidity combined with a high stiffness.

"Moplen" HP500N is extensively used in many injection moulding applications, such as furniture, crates, closures and containers.

"Moplen" HP500N is suitable for food contact.

Additional Properties:

Gloss at 60°, DIN 67530: 95%

Tensile Elongation at Break, ISO 527-2: >50%

Product Characteristics

Material Status	● Commercial: Active
Availability	● Europe
Test Standards Available	● ISO
Features	● Homopolymer ● Flow, Good ● Stiffness, Good ● Food Contact Acceptable
Uses	● Closures ● Containers ● Crates ● Furniture
Forms	● Pellets
Processing Method	● Injection Molding

Properties ¹

Physical	Nominal Values (SI)	Test Method
Density	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230 °C/2.16 kg)	12 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230 °C/2.16 kg)	16.0 cm ³ /10min	ISO 1133
Mechanical	Nominal Values (SI)	Test Method
Tensile Modulus	1550 MPa	ISO 527-1, -2
Tensile Stress at Yield	35.0 MPa	ISO 527-1, -2
Tensile Strain at Yield	10 %	ISO 527-1, -2
Tensile Strain at Break	50 %	ISO 527-1, -2
Impact	Nominal Values (SI)	Test Method
Charpy Unnotched Impact Strength (0 °C, Type 1, Edgewise)	30.0 kJ/m ²	ISO 179
(23 °C, Type 1, Edgewise)	110 kJ/m ²	
Charpy Notched Impact Strength (23 °C, Type 1, Edgewise, Notch A)	3.00 kJ/m ²	ISO 179
Hardness	Nominal Values (SI)	Test Method
Ball Indentation Hardness (H 358/30)	70.0 MPa	ISO 2039-1
Thermal	Nominal Values (SI)	Test Method
HDT (0.45 MPa) Unannealed	80.0 °C	ISO 75-1, -2
Vicat Softening Temperature		ISO 306

(B50 (50 °C/h 50N))
(A50 (50 °C/h 10N))

85.0 °C
153 °C

Notes

¹ Typical properties; not to be construed as specifications.

Regional Sales Offices: France +33 1 41 97 43 43 Benelux +31 168 384 400 Spain +34 934 96 4240
Italy +39 02 6712 1 Germany +49 61 31 20 70 UK +44 1244 670 000

You can find out more about Basell by contacting our website at: <http://www.basell.com/>

© 2002 Basell Technology Company BV.

Moplen is a trademark owned or used by Basell. The trademark *Moplen* is registered in the United States Patent and Trademark Office.

Before using a Basell product, customers and other users should make their own independent determination that the product is suitable for the intended use. They should also ensure that they can use the Basell product safely and legally. (Material Safety Data Sheets are available from Basell at <http://www.basell.com/>.) This document does not constitute a warranty, express or implied, including a warranty of merchantability or fitness for a particular purpose. No one is authorized to make such warranties or assume any liabilities on behalf of Basell except in a writing signed by an authorized Basell employee. Unless otherwise agreed in writing, the exclusive remedy for all claims is replacement of the product or refund of the purchase price at Basell's option, and in no event shall Basell be liable for special, consequential, incidental, punitive, or exemplary damages.

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