

Technical Data

Product Description

Moplen HP500D is a high molecular weight is a homopolymer, for processing by extrusion processes. This grade is specifically designed for melt phase thermoforming with good stiffness and low sagging tendency. Typical applications of Moplen HP500D include food trays, containers, sheets.

General

Material Status	• Commercial: Active
Literature ¹	• Processing - Extrusion (English) • Processing - Injection Molding (English) • Processing - Mold Shrink (English) • Technical Datasheet (English)
Search for UL Yellow Card	• LyondellBasell Industries • Moplen
Availability	• Africa & Middle East • Asia Pacific
Features	• High Molecular Weight • High Stiffness • Homopolymer
Uses	• Containers • Sheet • Support Trays
Forms	• Pellets
Processing Method	• Extrusion • Pipe Extrusion • Sheet Extrusion • Thermoforming

Physical	Nominal Value Unit	Test Method
Specific Gravity	0.900 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	35.0 MPa	ASTM D638
Tensile Elongation (Yield)	12 %	ASTM D638
Flexural Modulus	1560 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	100 J/m	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	103 °C	ASTM D648

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

Where to Buy

Supplier

LyondellBasell Industries
Wilmington, DE USA
Telephone: 713-309-7200
Web: <http://polymers.lyondellbasell.com/portal/site/basell/>

Distributor

Please contact the supplier to find a distributor for Moplen HP500D



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– Birgit Elvardt Bader, Production Manager, Micotron

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