

# Moplen HP500D

Polypropylene Homopolymer

LyondellBasell Industries

Message:

High Molecular Weight Polypropylene Homopolymer Resin

Features:

Specifically designed for melt phase thermoforming

Low sagging

Low yellowness

Good stiffness

Low taste and odor transfer

Good heat resistance

Excellent chemical resistance

Applications:

Food trays

Food containers

Electronic trays

Sheets

Non-pressure pipes

Profiles

General Information			
Features	High molecular weight		
	Lower odor transfer		
	Lower taste transfer		
	Homopolymer		
	Good strength		
	Good chemical resistance		
	Heat resistance, medium		
Uses	Piping system		
	Sheet		
	Container		
	Profile		
	Bracket tray		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.900	g/cm <sup>3</sup>	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

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