

# Moplen HP500N

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP500N is a medium-high fluidity polypropylene homo-polymer. Moplen HP500N is particularly suitable for the production of heavy denier staple fibre & continuous filament. Moplen HP500N exhibits good process stability & constant, high flow during extrusion. Moplen HP500N is developed for the extrusion of staple fibres for spinning wool system fibres for carpets, rugs & garments such as overalls & socks. Moplen HP500N is also suited for the production of continuous filament for ropes, belts & straps. Another typical application of Moplen HP500N is the extrusion of decorative ribbons.

\* Moplen HP500N is suitable for food contact.

General Information			
Features	Homopolymer		
	Workability, good		
	High liquidity		
	Compliance of Food Exposure		
Uses	Conveyor belt repair		
	Carpet backing		
	staple fiber		
	Textile applications		
	Belt material		
	ribbon		
	Rope		
	Fiber		
Processing Method	Fiber (spinning) extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	20	J/m	ASTM D256
Aging	Nominal Value	Unit	Test Method
Oven Aging (150°C)	15.0	day	ASTM D3012
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 <sup>1</sup>
NOTE			
1.	压力1 (10N)		

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