

# Moplen HP500H

Polypropylene Homopolymer  
Shazand (Arak) Petrochemical Corporation

Message:

Moplen HP500H is a polypropylene homo-polymer particularly suitable for the production of sheet for thermoforming, film yarn & monofilament. Moplen HP500H combines excellent process ability with high stiffness. Moplen HP500H is designed for the production of quality thermoforming such as drinking beakers, packaging for dairy products, nursery flower pots & trays for fruit, biscuits & chocolates. Moplen HP500H is also particularly suitable to produce film yarn, both with cast & tubular processes. Textile film yarns have a denier count of not more than 1100 to 1200 & are used for the production of bags, industrial fabrics & mats. Film yarn with a denier count ranging from 3000 to 28000 is used for baler twines, packaging twines & ropes. Moplen HP500H is also well suited for the production of monofilament used for instance for brush & broom filling & technical applications. Strapping, extruded Nets, blow moulded small containers & technical components are other typical applications of Moplen HP500H.

\* Moplen HP500H is suitable for food contact.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Stiffness		
	Homopolymer		
Uses	Bags		
	Blown Containers		
	Fabrics		
	Fibers		
	Film		
	Lawn and Garden Equipment		
	Monofilaments		
	Netting		
	Packaging		
	Rope		
	Strapping		
	Support Trays		
	Textile Applications		
	Thermoformed Containers		
	Yarn		
Processing Method	Extrusion Blow Molding		
	Fiber (Spinning) Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ASTM D1238

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.0	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	35	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)	94.0	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 <sup>1</sup>
NOTE			

1. Loading 1 (10 N)

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