

# Moplen HP501D

Polypropylene Homopolymer  
Shazand (Arak) Petrochemical Corporation

Message:

Moplen HP501D is a homo-polymer particularly suitable for extrusion.  
Moplen HP501D combines excellent process ability with an outstanding mechanical properties balance. Moplen HP501D is well suited for technical extrusion for strapping, sheet, profiles and small diameter pipes such as profiles for ball pens.  
Another typical application of Moplen HP501D is the extrusion of nets for various purposes and end-uses, for instance nets for olive harvesting or for the packaging of salami's and hams. Moplen HP501D is also appropriate for blow moulding small and medium sized containers.  
\* Moplen HP501D is suitable for food contact.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	Homopolymer		
Uses	Blow Molding Applications		
	Blown Containers		
	Netting		
	Piping		
	Profiles		
	Sheet		
	Strapping		
	Writing Instruments		
Processing Method	Extrusion		
	Extrusion Blow Molding		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	35.0	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)	150	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)	91.0	°C	ASTM D648
Vicat Softening Temperature	154	°C	ASTM D1525 <sup>1</sup>
NOTE			
1.	Loading 1 (10 N)		

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