

Moplen HP502N

Polypropylene Homopolymer
Shazand (Arak) Petrochemical Corporation

Message:

Moplen HP502N is a medium-high fluidity polypropylene homo-polymer for injection moulding. Because of its good flow properties; this grade offers easy mould filling& short cycle times. Articles produced from Moplen HP502N exhibit good dimensional stability & high stiffness. Moplen HP502N is widely used for injection moulding consumer goods such as food containers, cool boxes, vacuum flasks, flower pots, toys, garden furniture & small appliances. In the medical sector Moplen HP502N is used for 3-part syringes & a wide range of health care items. Other applications are closures, caps & crates for products.

* Moplen HP502N is suitable for food contact.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Moldability		
	High Stiffness		
	Homopolymer		
	Medium Flow		
Uses	Caps		
	Closures		
	Containers		
	Crates		
	Food Containers		
	Hypodermic Syringe Parts		
	Lawn and Garden Equipment		
	Medical/Healthcare Applications		
	Outdoor Furnishings		
	Toys		
	White Goods & Small Appliances		
Processing Method	Injection Molding		
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 ¹
NOTE			

1. Loading 1 (10 N)

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