

Jampilen HP500N

Polypropylene Homopolymer

Jam Polypropylene Company

Message:

Jampilen HP500N is a medium fluidity polypropylene homopolymer for general purpose injection molding applications. Due to its good flow properties, this grade offers easy mold filling and short cycle times. Articles produced from Jampilen HP500N exhibit good dimensional stability and high stiffness. Jampilen HP500N is widely used for injection molding consumer goods such as food containers, cool boxes, vacuum flasks, flower pots, toys, garden furniture and small appliances. In the medical sector, Jampilen HP500N is used for 3-part syringes and a wide range of health-care items. Other applications are closures, caps and crates for products. Jampilen HP500N is suitable for food contact.

General Information			
Features	Fast Molding Cycle		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Moldability		
	Good Stiffness		
	Homopolymer		
	Medium Flow		
Uses	Appliance Components		
	Caps		
	Closures		
	Containers		
	Food Containers		
	Hypodermic Syringe Parts		
	Lawn and Garden Equipment		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
	Density	0.900	g/cm ³ ASTM D1505
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	MPaASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
	Flexural Modulus	1550	MPaASTM D790
Impact	Nominal Value	Unit	Test Method
	Notched Izod Impact (23°C)	30	J/mASTM D256
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
Accelerated Oven Ageing (150°C)	360	hr	ASTM D3012

NOTE

1. Loading 1 (10 N)

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