

HP500N

Homopolymer

Description:

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 HP500N exhibit good dimensional stability and high stiffness. 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, HP500N is used for 3-part syringes and a wide range of health-care items. Other applications are closures, caps and crates for products. HP500N is suitable for food contact.

Typical Applications

- Cool boxes, vacuum flasks, flower pots
- Food containers
- Garden furniture
- Toys
- 3-part syringes
- Closures, caps
- Crates

Features: Easy mold filling and short cycle times, Good dimensional stability, High stiffness

Suitable for: Injection molding applications

Product Specification

PHYSICAL/MECHANICAL PROPERTIES	VALUE*	UNIT	TEST METHOD
Melt Flow Rate (230 °C, 2.16 kg)	12	g/10 min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Flexural Modulus	1550	MPa	ASTM D790
Tensile Strength at Yield	34	MPa	ASTM D638
Tensile Elongation at Yield	12	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	30	J/m	ASTM D256
Rockwell Hardness	102	R Scale	ASTM D785
Vicat softening point (10 N)	154	°C	ASTM D1525
H.D.T. (0.46 MPa)	95	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	h	ASTM D3012

* Typical values; not to be considered as product specification.