

## Technical Data Sheet

### Moplen HP500N P9T



Polypropylene, Homopolymer

#### Product Description

Moplen HP500N P9T is a homopolymer used for general purpose injection moulding applications. It exhibits good flow and stiffness. Moplen HP500N P9T is suitable for food contact.

This grade is not intended for medical and pharmaceutical applications.

<b>Application</b>	Furniture; Housewares
<b>Market</b>	Compounding; Consumer Products; Rigid Packaging
<b>Processing Method</b>	Compounding; Injection Blow Molding
<b>Attribute</b>	Medium Flow; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate			
(230 °C/2.16 kg)	12	g/10 min	ASTM D1238
(230 °C/2.16 kg)	12	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Flexural Modulus	1480	MPa	ASTM D790
Tensile Modulus	1400	MPa	ISO 527-1, -2
Tensile Strength at Yield	34	MPa	ASTM D638
Tensile Stress at Yield	35	MPa	ISO 527-1, -2
Tensile Elongation at Yield	10	%	ASTM D638
Tensile Strain at Break	> 50	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A)	4	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact Strength, (23 °C)	25	J/m	ASTM D256
<b>Thermal</b>			
Vicat Softening Temperature			
(A/50)	153	°C	ISO 306
(B50)	85	°C	ISO 306
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	97	°C	ASTM D648
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	95	°C	ISO 75B-1, -2