

## Technical Data Sheet

### *Moplen* EP500N



Polypropylene, Impact Copolymer

#### Product Description

*Moplen* EP500N is a polypropylene impact copolymer with optimized balance of stiffness and toughness, low warpage, and high impact at low temperature. Typical customer applications are injection molding of crates and pails, electrical appliances parts and general housewares.

<b>Application</b>	Furniture; Housewares; Opaque Containers; Small Appliances
<b>Market</b>	Consumer Products; Electrical / Electronics; Rigid Packaging
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	Good Impact Resistance; Good Processability; Good Stiffness; Impact Copolymer

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	ASTM D1238
Density	0.90	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Flexural Modulus	1150	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	6	%	ASTM D638
<b>Impact</b>			
Notched Izod Impact Strength			
(23 °C)	100	J/m	ASTM D256
(-20 °C)	50	J/m	ASTM D256
<b>Hardness</b>			
Rockwell Hardness, (R-Scale)	95		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load, (0.46 N/mm <sup>2</sup> )	110	°C	ASTM D648