

## Technical Data Sheet

### Moplen EP500V



Polypropylene, Impact Copolymer

#### Product Description

Moplen EP500V is an ultra high fluidity polypropylene copolymer used for injection moulding applications. The product combines high stiffness with good impact resistance, even at sub-zero temperatures. Moplen EP500V is extensively used for items with long flow paths. It is not intended for medical and pharmaceutical applications.

<b>Application</b>	Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers
<b>Market</b>	Compounding; Consumer Products; Rigid Packaging
<b>Processing Method</b>	Compounding; Injection Molding
<b>Attribute</b>	Good Impact Resistance; Good Stiffness; High Flow; Impact Copolymer; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	100	g/10 min	ISO 1133-1
Melt Volume Flow Rate, (230 °C/2.16 kg)	135	cm <sup>3</sup> /10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
Flexural Modulus	1100	MPa	ISO 178
Tensile Modulus	1100	MPa	ISO 527-1, -2
Tensile Stress at Yield	24	MPa	ISO 527-1, -2
Tensile Strain at Yield	5	%	ISO 527-1, -2
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	5.0	kJ/m <sup>2</sup>	ISO 179
(0 °C)	3	kJ/m <sup>2</sup>	ISO 179
(-20 °C)	2	kJ/m <sup>2</sup>	ISO 179
<b>Hardness</b>			
Ball Indentation Hardness	81	MPa	ISO 2039-1
<b>Thermal</b>			
Vicat Softening Temperature			
(A/50)	149	°C	ISO 306
(B50)	74	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	93	°C	ISO 75B-1, -2