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.

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

Typical Properties	Nominal Value	Units	Test Method
Physical			
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	cm³/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
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
Impact			
Charpy Impact Strength - Notched			
(23 °C)	5.0	kJ/m²	ISO 179
(0 °C)	3	kJ/m²	ISO 179
(-20 °C)	2	kJ/m²	ISO 179
Hardness			
Ball Indentation Hardness	81	MPa	ISO 2039-1
Thermal			
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