



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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Features	Impact Copolymer, High Flow , Good Impact Resistance , Low Temperature Impact Resistance, Good Stiffness
Typical Customer Applications	Containers, Housewares, Sports, Leisure and Toys, TWIM Food Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	100	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	135	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1450	MPa
Tensile Stress at Yield	ISO 527-1, -2	26	MPa
Tensile Strain at Break	ISO 527-1, -2	20	%
Tensile Strain at Yield	ISO 527-1, -2	6	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		5.0	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		3.2	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		2.3	kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-43	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	81	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	93	°C
Vicat softening temperature A/50	ISO 306	149	°C
Vicat softening temperature B/50	ISO 306	74	°C

Notes

Typical properties; not to be construed as specifications.