

Technical Data Sheet

Moplen EP300M



Polypropylene, Impact Copolymer

Product Description

Moplen EP300M is a heterophasic copolymer for injection moulding. The product offers an excellent balance of stiffness, impact strength and processability. Typical applications for Moplen EP300M are thin walled packaging, housewares and automotive parts.

Application	Crates; Housewares; Industrial
Market	Automotive; Compounding; Consumer Products; Rigid Packaging
Processing Method	Compounding; Injection Molding
Attribute	Good Impact Resistance; Good Processability; Good Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	7	g/10 min	ISO 1133-1
Density	0.89	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1000	MPa	ISO 178
Tensile Modulus	900	MPa	ISO 527-1, -2
Tensile Stress at Break	17	MPa	ISO 527-1, -2
Tensile Stress at Yield	21.5	MPa	ISO 527-1, -2
Tensile Strain at Break	400	%	ISO 527-1, -2
Tensile Strain at Yield	7	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m ²	ISO 179
(0 °C)	9	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	6	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature, (A50)	143	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	77	°C	ISO 75B-1, -2
DSC Melting Point	163	°C	DSC