

Technical Data Sheet

Moplen EP340M



Polypropylene, Impact Copolymer

Product Description

Moplen EP340M is a nucleated heterophasic copolymer, used in injection moulding applications.

Moplen EP340M features a high impact performance with good stiffness.

Moplen EP340M is typically used by customers in housewares, toys, luggage, transport and cold storage crates and consumer components subjected to low temperatures. The resin is also used as base material in technical compounding.

Moplen EP340M is UL listed under file E31765.

This grade is not intended for medical and pharmaceutical applications.

Application	Crates; Housewares; Luggage; Sports, Leisure & Toys
Market	Consumer Products
Processing Method	Injection Molding
Attribute	Good Processability; High Impact Resistance; Impact Copolymer; Medium Stiffness; Nucleated

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	7.5	g/10 min	ISO 1133-1
Density	0.90	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	1050	MPa	ISO 527-1, -2
Tensile Stress at Yield	21	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -2
Tensile Strain at Yield	6	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	45	kJ/m ²	ISO 179
(0 °C, Type 1, Edgewise, Notch A)	9	kJ/m ²	ISO 179
(-20 °C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
Ductile/Brittle Transition Temperature	-55	°C	ISO 6603-2
Hardness			
Ball Indentation Hardness	46	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature, (A50)	144	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	80	°C	ISO 75B-1, -2