Moplen EP340M

Polypropylene, Impact Copolymer

Product Description

Moplen EP340M is a nucleated heterophasic copolymer, suitable for injection moulding applications.

It exhibits an excellent impact performance with good stiffness and processability.

Moplen EP340M is designed for applications where very high impact resistance is a critical requirement. Typical areas of use are housewares, luggage, transport and cold storage crates and consumer components subjected to low temperatures and impact. The resin is also ideal as a base material in technical compounding.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Features	Impact Copolymer, High Impact Resistance , Nucleated, Good Processability, Good Stiffness
Typical Customer Applications	Crates, Housewares, Luggage, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	7.5	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	10	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1150	MPa
Tensile Stress at Yield	ISO 527-1, -2	21	MPa
Tensile Strain at Break	ISO 527-1, -2	50	%
Tensile Strain at Yield	ISO 527-1, -2	6	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	kJ/m²
(0 °C, Type 1, Edgewise)		No Break	kJ/m²
(-20 °C, Type 1, Edgewise)		No Break	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		45	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		9	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		7	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-55	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	46	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	80	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		144	°C
(B50 (50°C/h 50N))		58	°C

Notes

Typical properties; not to be construed as specifications.