



Moplen EP340S

Polypropylene, Impact Copolymer

Product Description

Moplen EP340S is a high fluidity, nucleated heterophasic copolymer used for injection moulding applications.

It offers outstanding processability, productivity and dimensional stability in combination with good impact behavior at low temperature.

Moplen EP340S is extensively used in large items with impact requirements such as boxes, crates, pails, large household articles and some smaller items such as thin-walled containers, caps and flower pots.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Typical Customer Applications	Crates, Housewares, Opaque Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm³
Melt flow rate (MFR) (230°C/2.16kg)	ISO 1133	42	g/10 min
Melt volume flow rate (230°C/2.16kg)	ISO 1133	57	cm³/10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1250	MPa
Tensile Stress at Yield	ISO 527-1, -2	24	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	5	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	kJ/m²
(0 °C, Type 1, Edgewise)		150	kJ/m²
(-20 °C, Type 1, Edgewise)		120	kJ/m²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		7.0	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		4.5	kJ/m²
(-20 °C, Type 1, Edgewise, Notch A)		4.0	kJ/m²
Ductile/Brittle transition temperature	ISO 6603-2	-54	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	53	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		147	°C
(B50 (50°C/h 50N))		67	°C
Optical			
Gloss (60°)	ASTM D 2457	70	%

Notes

Typical properties; not to be construed as specifications.