



Moplen EP240P

Polypropylene, Impact Copolymer

Product Description

Moplen EP240P is a nucleated heterophasic copolymer for injection moulding. Moplen EP240P has a good flowability and excellent low temperature impact properties. The main applications of Moplen EP240P are thin walled packaging like ice cream containers, cylindrical containers and housewares.

Moplen EP240P is suitable for food contact. 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, Good Flow, Low Temperature Impact Resistance
Typical Customer Applications	Crates, Housewares, Opaque Containers, Sports, Leisure and Toys

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	15	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	20	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1000	MPa
Tensile Stress at Yield	ISO 527-1, -2	20	MPa
Tensile Strain at Break	ISO 527-1, -2	>50	%
Tensile Strain at Yield	ISO 527-1, -2	7	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	
(0 °C, Type 1, Edgewise)		No Break	
(-20 °C, Type 1, Edgewise)		190	kJ/m ²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		13	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		6	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		5	kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-53	°C
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	45	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	78	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		142	°C
(B50 (50°C/h 50N))		56	°C

Notes

Typical properties; not to be construed as specifications.