



Moplen EP340K

Polypropylene, Impact Copolymer

Product Description

Moplen EP340K is a nucleated heterophasic copolymer suitable for injection moulding and thermoforming applications.

Moplen EP340K exhibits an outstanding low temperature impact performance and good stiffness combined with a good processability.

Moplen EP340K is designed for use in luggage, transport and cold storage crates, sports and leisure equipment, toys and typical consumer components which are subjected to impact and/or low temperature.

Product Characteristics

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

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	4	g/10 min
Melt volume flow rate (230°C/2.16Kg)	ISO 1133	5.4	cm ³ /10min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1100	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	5	%
Impact			
Charpy unnotched impact strength	ISO 179		
(23 °C, Type 1, Edgewise)		No Break	kJ/m ²
(0 °C, Type 1, Edgewise)		No Break	kJ/m ²
(-20 °C, Type 1, Edgewise)		230	kJ/m ²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		66	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		13	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		7	kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-57	°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	85	°C
Vicat softening temperature	ISO 306		
(A50 (50°C/h 10N))		140	°C
(B50 (50°C/h 50N))		52	°C

Notes

Typical properties; not to be construed as specifications.