



Moplen EP540P

Polypropylene, Impact Copolymer

Product Description

Moplen EP540P is a nucleated heterophasic copolymer, suitable for injection moulding applications.

It exhibits a high stiffness combined with a good impact balance.

Moplen EP540P is typically used in luggage, houseware items, containers, caps and closures.

Moplen EP540P is suitable for food contact.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Injection Molding
Features	Impact Copolymer, Good Impact Resistance , Nucleated, Good Stiffness
Typical Customer Applications	Caps & Closures, Housewares, Luggage, Opaque Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	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	1400	MPa
Tensile Stress at Yield	ISO 527-1, -2	28	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/m ²
(0 °C, Type 1, Edgewise)		120	kJ/m ²
(-20 °C, Type 1, Edgewise)		80	kJ/m ²
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		7.0	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		3.5	kJ/m ²
(-20 °C, Type 1, Edgewise, Notch A)		3.0	kJ/m ²
Ductile/Brittle transition temperature	ISO 6603-2	-45	°C
Hardness			
Ball indentation hardness (H 358/30)	ISO 2039-1	63	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	90	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		68	°C
(A50 (50°C/h 10N))		151	°C

Notes

Typical properties; not to be construed as specifications.