

CB 1640 MO

Technical Data Sheet

Polypropylene, Impact Heterophasic Copolymer



POLYPROPYLENE HETEROPHASIC COPOLYMER

Product Description

CB 1640 MO is a nucleated heterophasic copolymer, suitable for injection moulding applications. It exhibits a high stiffness combined with a good impact balance.

CB 1640 MO is typically used in luggage, houseware items, containers, caps and closures.

This grade is not intended for medical and pharmaceutical applications.

Product Characteristics

Application	Caps & Closures. Housewares. Luggage. Opaque Containers
Processing Method	Injection Molding
Market	Consumer Products. Rigid Packaging
Features	Impact Copolymer. Medium Impact Resistance. Medium Stiffness. Nucleated

Typical Properties

	Nominal Value	Units	Test Method
Physical			
Melt flow rate (MFR) (230°C/2.16Kg)	16	g/10 min	ISO 1133-1
Density (Method D)	0.900	g/cm ³	ISO 1183-1
Mechanical			
Tensile modulus	1300	MPa	ISO 527-1, -2
Tensile Stress at Yield	28	MPa	ISO 527-1, -2
Tensile Strain at Break	>50	%	ISO 527-1, -1
Tensile Strain at Yield	6	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched (23°C, Type 1, Edgewise, Notch A)	7	kJ/m ²	ISO 179
(0°C, Type 1, Edgewise, Notch A)	4.5	kJ/m ²	ISO 179
(-20°C, Type 1, Edgewise, Notch A)	3	kJ/m ²	ISO 179
Thermal			
Vicat Softening Temperature (A50)	151	°C	ISO 306
Heat Deflection Temperature B (0.45 MPa, Unannealed)	90	°C	ISO 75B-1, -2

Notes

These are typical property values not to be construed as specification limits

Packaging

Polypropylene (PP) pellet is typically packed in polyethylene bags with net weight of 25kg each. 50 bags are stacked on a flat wooden pallet (dimensions: 1100mm x 1300mm x 150mm) with net weight of 1250kg per pallet that is stretch-hood film wrapped. Upon agreement with a customer PP pellet can be packed into big bag sized for 1000kg on wooden pallet (dimensions: 1140mm x 1140mm x 150mm) without stretch-hood film wrapping. Polypropylene product of SOCAR Polymer cannot be transported in bulk using tank car.

Storage

Polypropylene product packed in 25kg bags or 1000kg big bags stacked on wooden pallet shall be stored in enclosed dry place preventing from direct sunlight at least 1 meter far from heaters, at temperature min. -15°C / max. 35°C, relative humidity max. 80%. Prior to processing PP product bags shall be kept in production area for at least 12 hours.