

# CB 4848 MO

Technical Data Sheet  
Polypropylene, Impact Heterophasic Copolymer



## Product Description

CB 4848 MO is a nucleated heterophasic copolymer with antistatic additivition used in injection moulding applications. CB 4848 MO has a high flow, good impact/stiffness balance. CB 4848 MO is typically used by customers in opaque containers, housewares, toys and closures.

CB 4848 MO is non-phthalate grade.  
This grade is suitable for food contact.

## Product Characteristics

|                   |   |
|-------------------|---|
| Application       | Caps & Closures. Housewares. Opaque Containers. Sports. Leisure & Toys        |
| Processing Method | Injection Molding. TWIM   |
| Market            | Consumer Products. Rigid Packaging  |
| Features          | High Flow. Medium Impact & Stiffness. Nucleated<br>Antistatic. Phthalate-free |

| Typical Properties                     | Nominal Value | Units             | Test Method |
|--|---------------|-------------------|-------------|
| Physical                               |               |                   |             |
| Melt Flow Rate (230°C/2.16kg)          | 48            | g/10 min          | ISO 1133    |
| Mechanical                             |               |                   |             |
| Flexural modulus (2 mm/min)            | 1400          | MPa               | ISO 178     |
| Tensile modulus (1 mm/min)             | 1300          | MPa               | ISO 527     |
| Tensile Strength at Yield (50 mm/min)  | 24            | MPa               | ISO 527     |
| Elongation at Yield (50 mm/min)        | 4             | %                 | ISO 527     |
| Impact                                 |               |                   |             |
| Izod Impact Strenght (Notched, 23°C)   | 6.0           | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                |               |                   |             |
| Vicat Softening Temperature (10N)      | 150           | °C                | ISO 306     |
| Heat Deflection Temperature (0.45 MPa) | 90            | °C                | ISO 75B     |

Typical temperature profile for Injection Molding:

Feed (Rear zone): 205°C / Transfer (Center zone): 220°C / Metering (Front zone): 220°C / Nozzle: 235°C / Mold: 15-30°C

Higher temperature settings may be necessary for parts or cycles requiring more plasticizing capacity.

Mold temperature may be raised to improve flow and surface finish or lowered for faster cycles, lower shrink and better ejection.

## Notes

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

## REACH

Polypropylene are exempted from registration under REACH. However, the corresponding monomers (used as raw materials for polymer production) and relevant additives have been registered. Please see related Declaration of Compliance for Plastic Food Contact Materials (DoC for PFCM).

## Packaging

Polypropylene pellets 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.

## 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.

PP shelf life is 36 months from the date of manufacture.

POLYPROPYLENE HETEROPHASIC COPOLYMER