

# RB 4545 MO

Technical Data Sheet

Polypropylene, Random Copolymer with Ethylene



## Product Description

RB 4545 MO is a polypropylene random copolymer for injection molding with clarifier, antistatic, and molding release additivation.

RB 4545 MO offers a very good flowability and an excellent transparency.

Typical applications of RB 4545 MO is thin walled packaging with high transparency.

## Product Characteristics

Application	Caps & Closures. Containers. Housewares.
Processing Method	Injection Molding. TWIM
Market	Consumer Products. Rigid Packaging
Features	High Transparency. High Flow. Clarifier. Antistatic. Molding Release.

## Typical Properties

	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate (230°C/2.16kg)	45	g/10	ISO 1133
<b>Mechanical</b>			
Flexural modulus (2 mm/min)	1100	MPa	ISO 178
Tensile modulus (1 mm/min)	1000	MPa	ISO 527
Tensile Strength at Yield (50 mm/min)	26	MPa	ISO 527
Elongation at Yield (50 mm/min)	12	%	ISO 527
<b>Impact</b>			
Izod Impact Strength (Notched, 23°C)	4.5	kJ/m <sup>2</sup>	ISO 180
Izod Impact Strength (Notched, -20°C)	1.9	kJ/m <sup>2</sup>	ISO 180
<b>Thermal</b>			
Vicat Softening Temperature (10N)	127	°C	ISO 306
Heat Deflection Temperature (0.45 MPa)	73	°C	ISO 75B
<b>Optical</b>			
Haze	27	%	ASTM D1003
Clarity	75	%	ASTM D1003

## 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.