

PP

PP PPB-M03

POLYPROPYLENE IMPACT (BLOCK) COPOLYMER (PP)

A polypropylene block (impact) copolymer resin with a low melt flow rate, combining balanced stiffness with good impact resistance. Produced via a gas-phase polymerization process, the resin is a high-crystallinity, low-density material that is particularly stable in water, with a 24-hour water absorption rate of only 0.01%.

Typical Applications:

- Automotive parts
- Battery shells
- Oil tanks
- Packing containers
- Toys
- Travel bags
- Kitchen wares
- Tool boxes

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Mass Flow Rate (230°C/2.16kg)	GB/T 3682.1-2018	2.5 ± 0.3	g/10 min
Tensile Yield Stress	GB/T 1040.2-2006	≥ 22.0	MPa
Flexural Modulus	GB/T 9341-2008	≥ 900	MPa
Charpy Notched Impact Strength (23°C)	GB/T 1043.1-2008	≥ 46	kJ/m ²
Heat Deflection Temperature (0.45 MPa load)	GB/T 1634.2-2019	≥ 80	°C
Density		0.90 - 0.91	g/cm ³
Melting Point		164 - 170	°C

1. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.

2. The MFR deviation quoted in the source TDS (± 0.3 g/10 min) is narrower than the broader commercial tolerance band (2.5 ± 0.5 g/10 min) commonly quoted for this grade; both describe the same nominal 2.5 g/10 min product.