

PP

PP M09

POLYPROPYLENE IMPACT COPOLYMER (PP)

This grade is a polypropylene impact (block) copolymer produced by introducing an ethylene-propylene rubber phase into a semi-crystalline polypropylene homopolymer matrix. The heterophasic microstructure gives a high heat deflection temperature, good scratch resistance, low-temperature impact resistance, and a favorable balance of stiffness and toughness, combined with good melt fluidity for fast-cycle processing. This medium-flow variant targets injection-moulded household appliance parts.

Typical Application

- Household appliances

Product Characteristics

- Heterophasic (rubber-toughened) impact copolymer microstructure
- Medium melt flow suited to injection moulding of appliance housings and components
- Good balance of stiffness and impact toughness

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (230°C/2.16 kg)		9	g/10 min
Tensile Strength at Yield		25	MPa
Notched Izod Impact Strength (23°C)		8.5	kJ/m ²
Flexural Modulus		1090	MPa

1. Two independently published producer family data sets for this grade agree closely (MFR 9-9.2 g/10 min, tensile 25-25.4 MPa, notched Izod 7.8-8.5 kJ/m², flexural modulus 1090-1120 MPa); the values above use the producer's offer-sheet figures for consistency with the accompanying commercial documentation.

2. Typical values per the producer's published family data; a grade-specific certificate of analysis is supplied per lot at order.

3. 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.