

PP

PP MP03-G

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, giving a heterophasic microstructure with good impact toughness. It is a low-flow variant suited to injection moulding and also used as a compounding base resin.

Typical Application

- Toys
- Battery cases
- Compounding base resin

Product Characteristics

- Heterophasic (rubber-toughened) impact copolymer microstructure
- Low melt flow suited to toy and battery-case injection moulding
- Suitable as a compounding base resin

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (230°C/2.16 kg)		2.2	g/10 min
Rockwell Hardness (R Scale)	GB/T 3398	82.8	
Tensile Strength at Yield	GB/T 1040	22	MPa
Charpy Notched Impact Strength (23°C)	GB/T 1043	60	kJ/m ²
Charpy Notched Impact Strength (-20°C)	GB/T 1043	6	kJ/m ²
Flexural Modulus	GB/T 9341	1012	MPa
Heat Deflection Temperature	GB/T 1634	79	°C
Ash Content	GB/T 9345 (Method A)	0.0189	%

1. The producer's offer sheet for this grade quotes a melt flow rate of 2.2 g/10 min with no further published mechanical/thermal data; the hardness, impact, flexural, thermal and ash values above are taken from a technical data sheet for the cross-referenced equivalent code (K8003) produced at a sister plant of the same producer, whose melt flow rate (2.70 g/10 min) runs somewhat higher than this grade's nominal value — treat these supplementary properties as indicative of the product family rather than lot-specific figures.

2. 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.