

PP

PP M02D

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 is a low-flow variant within the impact copolymer family, selected where impact toughness is the priority property.

Typical Application

- Toys
- Household electrical appliances

Product Characteristics

- Heterophasic (rubber-toughened) impact copolymer microstructure
- Low melt flow relative to the impact-copolymer product line, favoring wall thickness and impact performance over cycle speed
- Good balance of stiffness and impact toughness
- Good low-temperature impact resistance

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (230°C/2.16 kg)		1.8	g/10 min
Tensile Strength at Yield		26	MPa
Notched Izod Impact Strength (23°C)		50	kJ/m ²
Flexural Modulus		1140	MPa

1. Typical values per the producer's published family data for this impact-copolymer product line; a grade-specific certificate of analysis is supplied per lot at order.

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.

3. Test methods for the tabulated values were not stated in the source brochure.