PP

PP M17

POLYPROPYLENE HOMOPOLYMER (PP)

A polypropylene homopolymer with higher crystallinity, high rigidity, high tensile strength, high modulus, and good resistance to thermal distortion. The resin is characterized by high gloss and low odor, is suitable for microwave-safe articles, and is used across injection moulding applications including toys, household appliances, medical instrument components, and transportation and chemical containers.

Typical Application	Product Characteristics
• Injection moulding of toys and household appliances • Medical instrument components • Transportation pipes and chemical containers • Food-contact and microwave-safe articles	• Higher crystallinity with high rigidity, tensile strength, and modulus • Good resistance to thermal distortion • High gloss and low odor, suitable for visible parts

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Index (230°C/2.16kg)	ISO 1133	16	g/10 min
Density	ISO 1183	0.90	g/cm³
Tensile Strength at Yield	ISO 527	35.3	MPa
Elongation at Break	ISO 527	500	%
Flexural Modulus	ISO 178	1569	MPa
Notched Izod Impact Strength (23°C)	ISO 180	28.4	J/m
Heat Deflection Temperature	ISO 75	94	°C
Vicat Softening Point	ISO 306	154	°C
Rockwell Hardness (R-scale)	ISO 2039	95	
Melting Point	DSC	165	°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. Tensile strength and flexural modulus were converted from the source's kgf/cm² values (360 kgf/cm² and 16,000 kgf/cm² respectively) and notched Izod impact strength was converted from kgf·cm/cm-notch (2.9) to J/m using standard unit conversion factors.
3. The producer's own catalog lists a closely related grade code (V30G) that it states shares the same published typical-value table as this grade, with melt flow index 16.0 g/10 min and tensile stress at yield 31.4 MPa — consistent within normal batch variance with the values reported here.