

PP

PP M70

POLYPROPYLENE HOMOPOLYMER (PP)

A non-toxic, odorless, tasteless, opalescent homopolymer polypropylene with high crystallinity. Melting point ranges 164-170°C, density ranges 0.90-0.91 g/cm³, and molecular weight is approximately 80,000-150,000. It is among the lightest of common thermoplastics and is particularly stable in water, with a 24-hour water absorption rate of only 0.01%. This very-high-flow grade is produced via a loop-reactor process and is mainly used in thin-wall injection molding processing.

Typical Application

- Fast food boxes
- Package boxes
- Finishing/sorting boxes
- Cups
- Food containers
- Modified materials for automobiles

International Compliance

- FDA
- RoHS
- PAHs
- SVHC
- California Proposition 65 (CP65)

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Mass Flow Rate (MFR, 230°C/2.16kg)	GB/T 3682.1-2018	70 ± 5	g/10 min
Tensile Yield Stress	GB/T 1040.2-2006	≥35	MPa
Flexural Modulus (Ef)	GB/T 9341-2008	≥1500	MPa
Charpy Notched Impact Strength (23°C)	GB/T 1043.1-2008	≥1.8	kJ/m ²
Heat Deflection Temperature under Load (0.45 MPa)	GB/T 1634.2-2019	≥90	°C

1. M70 is produced at a different plant than MM70 but is published as part of the same MFR-70 thin-wall injection homopolymer family, sharing one typical-value datasheet across both grade codes; 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.