PP

PP PPH-MM90

POLYPROPYLENE HOMOPOLYMER (PP)

An ultra-high-melt-flow polypropylene homopolymer produced via a bulk (loop-reactor) polymerization process, engineered for thin-wall injection moulding where very high flow supports fast-cycle, large-cavity tooling. The resin is a high-crystallinity, low-density opalescent material that is particularly stable in water, with a 24-hour water absorption rate of only 0.01%.

Typical Application	Product Characteristics	International Compliance
• Fast-food boxes • Packing boxes • Cups • Food containers • Automotive modified (compounded) materials base resin	• Ultra-high melt flow rate for fast-cycle, large-cavity thin-wall injection molding • High stiffness and heat resistance suited to demanding thin-wall parts	• FDA • RoHS • PAHs • SVHC • CA Prop 65 (CP65)

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Mass Flow Rate (230°C/2.16kg)	GB/T 3682.1-2018	90 ± 3	g/10 min
Tensile Yield Stress	GB/T 1040.2-2006	≥ 35	MPa
Flexural Modulus	GB/T 9341-2008	≥ 1500	MPa
Charpy Notched Impact Strength (23°C)	GB/T 1043.1-2008	≥ 1.8	kJ/m²
Heat Deflection Temperature (0.45 MPa load)	GB/T 1634.2-2019	≥ 90	°C
Density		0.90 - 0.91	g/cm³
Melting Point		164 - 170	°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. A grade-specific technical data sheet for this exact ultra-high-flow grade was not publicly available; melt flow rate is per the producer's published grade catalog, while the remaining mechanical and thermal property values are the family-wide typical properties documented for the same producer's thin-wall injection homopolymer platform at an adjacent melt flow level. Grade-specific certificate of analysis supplied per lot at order.