

TECHNICAL DATA SHEET

M312

Polypropylene Impact Copolymer

Characteristics

M312 is a **Heterophasic Polypropylene Impact Copolymer (PPiCP)**, produced by the latest generation **Spheripol II Technology**. This PPiCP is primarily suitable for **Injection Molding** process. **M312** combines excellent **processability with high Flow, low Cycle Time, good Impact – Stiffness balance and good Gloss**.

Application

- **Automotive Components**
- **Housewares, Thermowares & Sanitarywares**
- **Industrial Components**
- **Luggage**
- **Paint Pail**
- **Compounding**

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg & 230 ⁰ C)	ASTM D 1238	g/10 min	12
Density at 23°C	ASTM D 1505	g/cm ³	0.90
Tensile Strength at Yield (50 mm/min)	ASTM D 638 (Type I - with Extensometer)	MPa	22
Tensile Elongation at Yield (50 mm/min)		%	7
Flexural Modulus	ASTM D 790A	MPa	1000
Notched Izod Impact Strength (23°C)	ASTM D 256A	J/m	120
Vicat Softening Point (10N)	ASTM D 1525	⁰ C	145
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	⁰ C	88

Typical Processing Temperature

Barrel Temperature	⁰ C	160 - 250
Mold Temperature	⁰ C	30 – 40

Mechanical properties are tested on Injection Molded Test Specimens prepared as per ASTM D 4101

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