

TECHNICAL DATA SHEET

M310

Polypropylene Impact Copolymer

Characteristics

M310 is a **Heterophasic Polypropylene Impact Copolymer (PPiCP)**, produced by the latest generation **Spheripol II Technology**. This PPiCP is primarily suitable for **Injection Molding** process.

M310 combines excellent **processability with high Flow, low Cycle Time, excellent Thermal Stability, good Impact – Stiffness balance, good Gloss & low Static Charge Build up.**

Application

- **Battery Box**

Property	Test Method	Unit	Value
Melt Flow Index (2.16 kg & 230 ^o C)	ASTM D 1238	g/10 min	10
Density at 23°C	ASTM D 1505	g/cm ³	0.90
Tensile Strength at Yield (50 mm/min)	ASTM D 638	MPa	24
Tensile Elongation at Yield (50 mm/min)	(Type I - with Extensometer)	%	6
Flexural Modulus	ASTM D 790A	MPa	1200
Notched Izod Impact Strength (23°C)	ASTM D 256A	J/m	90
Vicat Softening Point (10N)	ASTM D 1525	°C	145
Heat Deflection Temperature (0.455 MPa)	ASTM D 648	°C	100

Typical Processing Temperature

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

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

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