

TECHNICAL DATA SHEET

M312

M312 is a Heterophasic Polypropylene Impact Copolymer produced by the Spheripol Technology

M312 combines excellent processability with high Flow, low Cycle Time, good Impact – Stiffness balance and good Gloss

M312 is recommended for Injection Molded Automotive Components, Housewares, Luggage, Paint Pail, Compounds

BIS Designation Code: IS 10951-3-MB-C

Property	Test Method	Unit	Nominal Value
Melt Flow Index (2.16 kg, 230°C)	ASTM D1238, IS 13360 (Part 4/Sec 1)	g/10 min	12
Density (23°C)	ASTM D1505, IS 13360 (Part 3/Sec 11)	g/cm ³	0.90
Physical Property			
Tensile Strength at Yield	ASTM D638 (50 mm/min)	MPa	23
Tensile Elongation at Yield		MPa	5
Flexural Modulus	ASTM D790A	MPa	950
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	120
Vicat Softening Point (10 N)	ASTM D1525	°C	145
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	88
Suggested Processing Conditions			
Barrel Temperature	160 - 250 °C		
Mold Temperature	30 - 40 °C		

* Halene P is the registered trademark of Polypropylene of Haldia Petrochemicals Limited

Mechanical properties tested on Injection Molded Test Specimens

This grade meets the requirements of:

IS 10951:2020 Specification for Polypropylene Material for Moulding and Extrusion

IS 16738:2018 Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals

IS 10146 for use in contact with foodstuffs, pharmaceuticals and drinking water



Halene – P*

This product is not recommended for manufacturing of Single Use Plastic (SUP) items listed under Plastics Waste Management (PWM) Rule 2016 and its latest amendment

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