

## TECHNICAL DATA SHEET

## M110

| <p><b>M110</b> is a Polypropylene Homopolymer, produced by the Spheripol Technology</p> <p><b>M110</b> combines exceptional processability with Low Cycle Time, High Gloss &amp; Excellent Color</p> <p><b>M110</b> is recommended for Injection Molded Furniture &amp; Household items</p> <p><b>BIS Designation Code:</b> IS 10951-1-MB-C</p> |                                      |                   |               |
|---|--------------------------------------|-------------------|---------------|
| 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          | 11            |
| Density (23°C)  | ASTM D1505, IS 13360 (Part 3/Sec 11) | g/cm <sup>3</sup> | 0.90          |
| <b>Physical Property</b>  |                                      |                   |               |
| Tensile Strength at Yield   | ASTM D638 (50 mm/min)                | MPa               | 34            |
| Tensile Elongation at Yield   |                                      | %                 | 9             |
| Flexural Modulus  | ASTM D790A                           | MPa               | 1500          |
| Notched Izod Impact Strength (23°C)   | ASTM D256A                           | J/m               | 30            |
| Vicat Softening Point (10 N)  | ASTM D1525                           | °C                | 154           |
| Heat Deflection Temperature (0.455 MPa)   | ASTM D648                            | °C                | 99            |
| <b>Suggested Processing Conditions</b>  |                                      |                   |               |
| Barrel Temperature  | 180 – 280 °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 prepared in accordance with ASTM D4101

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 10910:1984 on Specification of Polypropylene for its safe 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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