

## TECHNICAL DATA SHEET

## M304

**M304** is a Heterophasic Polypropylene Impact Copolymer produced by the Spheripol Technology

**M304** combines excellent processability with low Cycle Time and excellent Impact – Stiffness balance.

**M304** is recommended for use in Injection Molded Furniture, Automotive Components, Paint Pails, Crates

**BIS Designation Code:** IS 10951-3-MB-A

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	3.5
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	25
Tensile Elongation at Yield		%	7
Flexural Modulus	ASTM D790A	MPa	1000
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	>150
Vicat Softening Point (10 N)	ASTM D1525	°C	145
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	90
<b>Suggested Processing Conditions</b>			
Barrel Temperature	180 – 260 °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*

*The information and data presented herein are typical values of representative samples and should not be construed as specification or tested values of supplied product. Prior to use, buyer shall ensure independently through tests and trials, that HPL products can be handled and used by them legally, safely, and suitably for their intended operation and end-use application. No warranty or guarantee expressed or implied is made regarding performance or otherwise. In no event shall HPL be liable for any damage, loss or injury directly or indirectly suffered as a result of use of product or information provided herein. The information & data contained herein are reliable to the best of our knowledge on the date of release of the document and is subject to change without prior intimation based on research & development work undertaken by HPL*

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