HALDIA PETROCHEMICALS LTD

Halene – P*

TECHNICAL DATA SHEET M310

M310 is a Heterophasic Polypropylene Impact Copolymer produced by the Spheripol Technology

M310 combines excellent processability with high Flow, low Cycle Time, excellent Thermal Stability, and good Impact – Stiffness balance.

M310 is recommended for Injection Molded Battery Box and Industrial Items

BIS Designation Code: IS 10951-3-JB-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	10
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	24
Tensile Elongation at Yield		%	6
Flexural Modulus	ASTM D790A	MPa	1200
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	90
Vicat Softening Point (10 N)	ASTM D1525	°C	145
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	100
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 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

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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

Compliance Certificates & MSDS are available on request.
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