

TECHNICAL DATA SHEET

F103

F103 is a Polypropylene Homopolymer, produced by Spheripol Technology

F103 is designed for stable extrusion on stenter lines with low water carryover & good thickness control

F103 has excellent Clarity, Gloss, Mechanical Strengths, Impact & Puncture Resistance

F103 is recommended for BOPP Films in Food Packaging, Lamination & Metallizable applications

BIS Designation Code: IS 10951-1-FB-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
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	34
Tensile Elongation at Yield		MPa	10
Flexural Modulus	ASTM D790A	MPa	1450
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	10
Vicat Softening Point (10 N)	ASTM D1525	°C	152
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	95
Suggested Processing Conditions			
Barrel Temperature	230 - 280 °C		
Water Bath Temperature	10 - 15 °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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