

TECHNICAL DATA SHEET

R103

<p>R103 is a Polypropylene Homopolymer produced by the Spheripol Technology</p> <p>R103 combines exceptional processability with Low Water Carry Over, Excellent Strength & Color</p> <p>R103 is recommended for Stretched Tape Raffia for Woven sacks, FIBC, Ropes & Yarns</p> <p>BIS Designation Code: IS 10951-1-TB-A</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	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		%	9
Flexural Modulus	ASTM D790A	MPa	1500
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	40
Vicat Softening Point (10 N)	ASTM D1525	°C	153
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	93
Suggested Processing Conditions			
Barrel Temperature	220 – 280 °C		
Die Temperature	260 – 280 °C		
Quench Temperature	30 – 40 °C		
Stretching Temperature	~ 160 °C (Oven)		

* 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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