

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 | | MPa | 9 |
| Flexural Modulus | ASTM D790A | MPa | 1450 |
| 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

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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