HALDIA PETROCHEMICALS LTD

# Halene – P

| TECHNICAL DATA SHEET | F103 | Polypropylene Homopolymer |
|---|---|---|

## Characteristics

**F103** is a **Polypropylene Homopolymer**, produced by the latest generation **Spheripol II Technology**. This is an **Extrusion grade** primarily suitable for Monolayer or Coextruded Biaxially Oriented Polypropylene films (BOPP).

**F103** is designed to provide a very stable extrusion on stenter lines & to give **low water carryover**, excellent thickness control & increased drawability.

**BOPP films produced from F103 possess excellent Clarity, Gloss, Mechanical Strengths, high Impact & Puncture Resistance & barrier to Moisture, Aroma, Fats & Oils.**

**Product produced from F103 is suitable for Food Contact application.**

## Application

- **General Purpose BOPP Films**
- **Metallizable BOPP Film**
- **Lamination grade BOPP Film**

| Property | Test Method | Unit | Value |
|---|---|---|---|
| Melt Flow Index (2.16 kg & $230^0$ C) | ASTM D 1238 | g/10 min | 3.3 |
| Density at 23°C | ASTM D 1505 | $g/cm^3$ | 0.90 |
| Tensile Strength at Yield (50 mm/min) | ASTM D 638 (Type I - with Extensometer) | MPa | 34 |
| Tensile Elongation at Yield (50 mm/min) | | % | 10 |
| Flexural Modulus | ASTM D 790A | MPa | 1450 |
| Notched Izod Impact Strength ( 23°C) | ASTM D 256A | J/m | 40 |
| Vicat Softening Point (10N) | ASTM D 1525 | $^0C$ | 152 |
| Heat Deflection Temperature (0.455 MPa) | ASTM D 648 | $^0C$ | 95 |

| Typical Processing Temperature | | |
|---|---|---|
| Barrel Temperature | $^0C$ | 230 - 280 |
| Water Bath Temperature | $^0C$ | 10 - 15 |

*Mechanical properties are tested on Injection Molded Test Specimens prepared as per ASTM D 4101*

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