

TECHNICAL DATA SHEET

F103

Polypropylene Homopolymer

Characteristics

F103 is a **Polypropylene Homopolymer**, produced by the latest generation **Spheripol 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
Density at 23°C	ASTM D 1505	g/cm ³	0.90
Tensile Strength at Yield	ASTM D 638 * (Type I - with Extensometer)	MPa	32
Tensile Elongation at Yield		%	9
Flexural Modulus	ASTM D 790	MPa	1450
Izod Impact Strength (Notch, 23°C)	ASTM D 256	J/m	30
Vicat Softening Point (10N)	ASTM D 1525	⁰ C	152
Heat Deflection Temperature (0.46 N/m ²)	ASTM D 648	⁰ C	95

Typical Processing Temperature

Barrel Temperature	⁰ C	230 - 280
Water Bath Temperature	⁰ C	10 - 15

* Mechanical properties tested on Injection Molded Test Specimens (Type I)

The above typical properties are not to be construed as Specifications and may change without any prior notice. The User will solely be responsible for any intended process / product usage and HPL does not guarantee or undertake any responsibility for any consequential damage or loss based on the information given above.