

# BNM Group / BNM Petroleum

## Technical Reference Sheet

|                    |                |                  |                           |
|--------------------|----------------|------------------|---------------------------|
| Material           | PP Homopolymer | Document ID      | TR-BOROUGE-PPHOMO-HF420FB |
| Grade              | HF420FB        | Date Generated   | 2026-09-11                |
| Reference Producer | Borouge        | Producer Country | United Arab Emirates      |

### 1. Reference Scope

This Technical Reference Sheet provides technical properties for **PP Homopolymer**, grade/designation **HF420FB**, as referenced from the official producer source cited below. It is intended for commercial pre-qualification and technical comparison only.

**Reference Producer:** Borouge | **Producer Grade:** HF420FB

### 2. Application

A polypropylene homopolymer fibre grade formulated for spunbond nonwoven production (staple fibre and continuous filament lines), targeted at high-tensile and geotextile end uses.

### 3. Technical Properties

| Property                      | Value       | Unit    | Test Method           | Condition     | Source Page         |
|-------------------------------|-------------|---------|-----------------------|---------------|---------------------|
| Density                       | 905         | kg/m3   | ISO 1183-1            | —             | 1 (single-page PDS) |
| Melt flow rate                | 19          | g/10min | ISO 1133-1            | 230°C/2.16 kg | 1 (single-page PDS) |
| Molecular weight distribution | Very narrow | -       | not shown on document | —             | 1 (single-page PDS) |
| Melting temperature           | 161         | °C      | ISO 11357-3           | —             | 1 (single-page PDS) |

### 5. Commercial / Technical Notes

- This grade has a notably short property table on the source PDS relative to the other Borouge grades audited (only 4 quantitative rows, no mechanical/processing table) -- a genuine limitation of the source document, not an extraction omission.
- Producer describes typical characteristics as: excellent spinning performance, improved melt stability, extremely low hard spot/defect rate, controlled rheology, good long-term heat stability.
- Datasheet states product should be stored in dry conditions at temperatures below 50°C and protected from UV-light.
- exact\_grade\_match set false: BNM's catalogue need is family-level PP Homopolymer across applications, while HF420FB is a single grade for spunbond fibre/geotextile use only.

### 6. Restrictions / Source Notes

- The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications.

## 7. Source Attribution

|                       |                                                                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Official Source URL   | <a href="https://www.borealisgroup.com/storage/Datasheets/HF420FB-PDS-REG_WORLD-EN-V3-PDS-WORLD-24615-PDS_HF420FB_3_20052022.pdf">https://www.borealisgroup.com/storage/Datasheets/HF420FB-PDS-REG_WORLD-EN-V3-PDS-WORLD-24615-PDS_HF420FB_3_20052022.pdf</a> |
| Source Document Title | HF420FB - Product Data Sheet                                                                                                                                                                                                                                  |
| Source Revision       | Ed.3                                                                                                                                                                                                                                                          |
| Source Document Date  | 20.05.2022                                                                                                                                                                                                                                                    |
| Source Document Type  | Product Data Sheet (PDS)                                                                                                                                                                                                                                      |
| Source Verified       | Yes                                                                                                                                                                                                                                                           |
| Exact Grade Match     | No                                                                                                                                                                                                                                                            |

*Producer data is cited solely as technical reference information. BNM does not claim manufacturer, agency, distributorship, or endorsement status unless separately stated in a signed commercial agreement.*

## 8. BNM Disclaimer

This Technical Reference Sheet is prepared by BNM for commercial pre-qualification and technical comparison purposes only. Values are reproduced or paraphrased from the cited official producer source where available in the locked research dataset. Final producer, origin, grade, specification, packaging, shipment terms, SDS, and COA must be confirmed in BNM's commercial offer, contract, and shipment documents. COA is batch-specific and is not represented by this reference sheet.

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