

BNM Group / BNM Petroleum

Technical Reference Sheet

Material	LDPE (Low Density Polyethylene)	Document ID	TR-QAPCO-LDPE-FD0374
Grade	Lotrène 0374FD (trade notation "FD0374")	Date Generated	2026-09-11
Reference Producer	QAPCO	Producer Country	Qatar

1. Reference Scope

This Technical Reference Sheet provides technical properties for **LDPE (Low Density Polyethylene)**, grade/designation **Lotrène 0374FD (trade notation "FD0374")**, as referenced from the official producer source cited below. It is intended for commercial pre-qualification and technical comparison only.

Reference Producer: QAPCO | **Producer Grade:** Lotrène 0374FD (trade notation "FD0374")

2. Application

Producer lists this grade for light-duty packaging films such as laundry film, display film, bakery bags, and garment/newspaper film.

3. Technical Properties

Property	Value	Unit	Test Method	Condition	Source Page
Melt Flow Index	3.5	min/10g (as printed; conventionally g/10min)	ASTM D-1238	not shown on document	Polymer Properties section
Density @ 23°C	0.923	g/cm ³	ASTM D-1505	23°C	Polymer Properties section
Crystalline Melting Point	108	°C	ASTM D-794E	not shown on document	Polymer Properties section
Vicat Softening Point	89	°C	ASTM D-1525	not shown on document	Polymer Properties section
Tensile Strength at Yield (MD/TD)	11/11	MPa	ASTM D-882	MD/TD	Film Properties section
Tensile Strength at Break (MD/TD)	25/22	MPa	ASTM D-882	MD/TD	Film Properties section
Elongation at Break (MD/TD)	320/600	%	ASTM D-882	MD/TD	Film Properties section
Impact Strength	50	g/100F (as printed on document)	ASTM D-1709	not shown on document	Film Properties section
Tear Resistance (MD/TD)	65/35	mm/N (as printed on document)	ASTM D-1922	MD/TD	Film Properties section
Coefficient of Friction	0.11	not shown on document (dimensionless)	ASTM D-1894	not shown on document	Film Properties section
Haze	8	%	ASTM D-1003	not shown on document	Film Properties section
Gloss @ 45°	56	not shown on document	ASTM D-2457	45°	Film Properties section

4. Processing / Handling Notes

Parameter	Value	Unit	Notes	Source Page
Melt Temperature	140-150	°C	recommended processing range	Processing section
Blow-up Ratio (BUR)	between 2:1 and 3:1	ratio	recommended range	Processing section
Recommended Thickness Range	20 to 100	µm	—	Processing section
Laboratory Test Conditions	Screw 45mm, D/L=30, die gap 1.56mm, BUR 2.5:1	n/a	conditions used to generate the reported film properties	Processing/test conditions section

5. Commercial / Technical Notes

- Additive package, as printed on source: slip additives (erucamide 600 ppm target) and anti-blocking additives (900 ppm target antioxidants).
- Storage: store in a dry, well-ventilated area, away from direct sunlight and heat in any form; should not be stored more than three months from date of receipt.
- Complies with REACH (EC 1907/2006), and US/EU food contact regulations; "Limitations may apply."
- Liability disclaimer: QAPCO disclaims all warranties and assumes no liability for specific use applications.
- DISCREPANCY vs Phase 2B: the originally recorded URL (qapco.com/storage/2023/04/Lotre%CC%80ne-FD0374-1.pdf) now 404s. Content was re-verified via a re-hosted live copy of the identical document at <https://qapco.com/wp-content/uploads/2025/10/Lotrene-FD0374-1.pdf> -- source URL should be updated in the manifest to this address.

6. Restrictions / Source Notes

- NOT SUITABLE FOR MEDICAL OR PHARMACEUTICAL APPLICATIONS

7. Source Attribution

Official Source URL	https://qapco.com/wp-content/uploads/2025/10/Lotrene-FD0374-1.pdf
Source Document Title	FD0374 Low Density Polyethylene -- Technical Datasheet (product specification)
Source Revision	not explicitly labeled as a revision number on document; document carries the date below
Source Document Date	13/04/2023
Source Document Type	Technical Data Sheet (TDS)
Source Verified	Yes
Exact Grade Match	Yes

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.

This document is not a Certificate of Analysis, not a Safety Data Sheet, and not a manufacturer-issued datasheet.