PRODUCT DATA SHEET

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Low Density Polyethylene

LF2207M

Technical support:
Polymer Technology Services Centre
22 Pressburg Road,
Modderfontein, 1609
South Africa

Tel: +27 (0)11 458 0700
Fax: +27 (0)11 458 0734

Sales office:
Sasol Base Chemicals
PO Box 5486
Johannesburg, 2000
South Africa

Tel: +27 (0) 10 344 5000
polymers@sasol.com

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www.sasol.com

Melt Index: 0.75 g/10min

Density: 0.922 g/cm^3

Features
- Tubular Resin
- Good mechanical properties
- Good optical properties

Applications
- General packaging
- Shrink film
- Form fill and seal
- Boutique bags

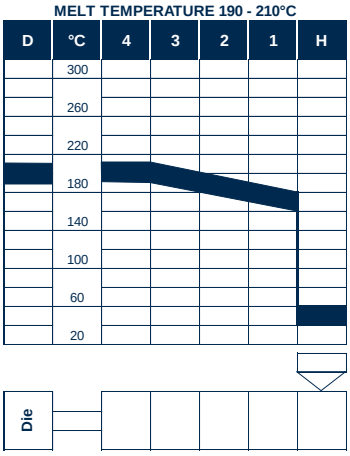
Additives
- Antioxidant
- Medium slip
- Medium antiblock

Typical properties (not to be construed as specifications)		Value (SI)	Value (English)	Method
Resin Properties	Melt Index (190°C/2.16kg)	0.75 g/10min	0.75 g/10min	ASTM D1238
	Nominal density	0.922 g/cm^3	0.922 g/cm^3	ASTM D1505
Film Properties	Tensile strength at yield MD	10 MPa	1450 psi	ASTM D882
	Tensile strength at yield TD	10 MPa	1450 psi	ASTM D882
	Tensile strength at break MD	22 MPa	3190 psi	ASTM D882
	Tensile strength at break TD	20 MPa	2900 psi	ASTM D882
	Elongation MD	440 %	440 %	ASTM D882
	Elongation TD	580 %	580 %	ASTM D882
	Elmendorf Tear MD	4 g/µm	4 g/µm	ASTM D1922
	Elmendorf Tear TD	5 g/µm	5 g/µm	ASTM D1922
	Dart Drop Impact Strength (F_{50})	130 g	130 g	ASTM D1709A
	Haze	7.5 %	7.5 %	ASTM D1003
	Clarity	40	40	ASTM D1746
	Gloss (45°)	60	60	ASTM D2457
	Coefficient of Friction (Static)	0.1	0.1	ASTM D1894
	Coefficient of Friction (Dynamic)	0.1	0.1	ASTM D1894
	Blocking	<25 g	<25 g	ASTM D3354

The above values were measured on a 50 µm film produced on a 65 mm Macchi extruder with a Macchi LDPE screw and a 250 mm die, using 208°C melt temperature, 625 mm FLH and a 2.5:1 BUR using a die gap of 0.8mm.

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Blown film extrusion



Processing

LF2207M should be processed on a conventional LDPE extruder, but can be processed on a LLDPE extruder (wide die gap) with drawdown limitations. The optimum BUR is 2.0:1. However excellent properties are obtained at a BUR of 1.4:1 (for > 100 µm thick film). Recommended screen pack: 60/100/60 BS mesh.

Handling

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours. Please consult the material safety data sheet (SDS) for more detailed information.

Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight during storage. If stored in cool (<25°C), dry area with low ambient light levels, polyolefin resins are expected to maintain their original material and processing properties for at least 12 months.

Combustibility

Polyethylene resins will burn when supplied adequate heat and oxygen. They should be handled and stored away from contact with direct flames and/or other ignition sources. In burning, polyethylene resins contribute high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and water mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.

Conveying

Conveying equipment should be designed to prevent accumulation of fines and dust particles that are contained in all polyethylene resins. The fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used:

- be equipped with adequate filters
- is operated and maintained in such a manner to ensure no leaks develop
- that adequate grounding exists at all times

It is further recommended that good housekeeping is practiced throughout the facility.

Regulatory & Legal Compliance

This material complies with FDA regulation 21 CFR 177.1520 when used unmodified and according to good manufacturing practices for food contact applications. Refer to applicable food contact compliance statement which is available on request.

This material is not medically approved and should therefore not be used in any such application.

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