

PRODUCT DATA SHEET



LDPE	LDPE	LDPE	LDPE	LDPE	LDPE	LDPE	LDPE	LDPE	LDPE	LDPE
Low Density Polyethylene LF2220					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: (0) 10 344 5000 polymers@sasol.com		

Date of issue : March 2017

www.sasol.com
Melt Index: 2.0 g/10min
Density: 0.922 g/cm³

Features

- Tubular Resin
- Good flexibility

Applications

- Blow moulded bottles and tubes
- Pool hose
- Extruded profiles
- Foamed polyethylene sheeting and profiles
- Small injection moulded parts

Additives

- Antioxidant

Typical properties (not to be construed as specifications)		Value (SI)	Value (English)	Method
Resin Properties	Melt Index (190°C/2.16kg)	2.0 g/10min	2.0 g/10min	ASTM D1238
	Nominal density	0.922 g/cm ³	0.922 g/cm ³	ASTM D1505
Product Properties	Tensile strength at yield	12 MPa	1740 psi	ASTM D638 ¹⁾
	Tensile strength at break	12 MPa	1740 psi	ASTM D638 ¹⁾
	Elongation at break	500 %	500 %	ASTM D638 ¹⁾
	Flexural modulus	250 MPa	36250psi	ASTM D790
	ESCR F ₅₀	0.2 hr	0.2 hr	ASTM D1693 ²⁾
	Shore D Hardness	53	53	ASTM D2240
	Vicat softening temperature	96 °C	96 °C	ASTM D1525

1) Crosshead speed 500mm/min

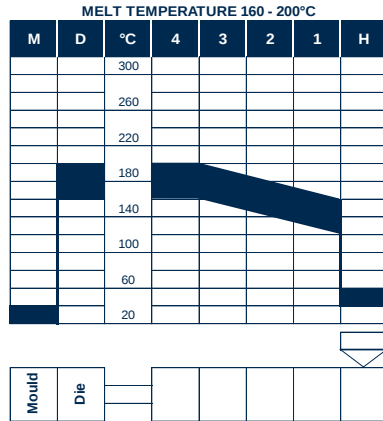
2) 100% Igepal CO630

PRODUCT DATA SHEET

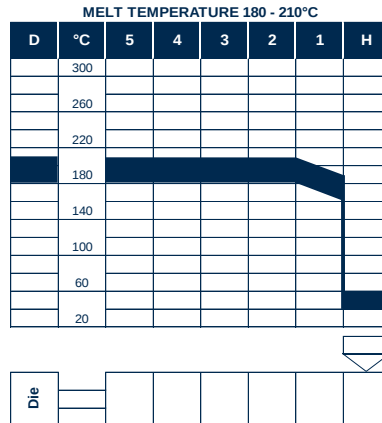


LDPE LDPE LDPE LDPE LDPE LDPE LDPE LDPE LDPE LDPE LDPE LDPE LDPE

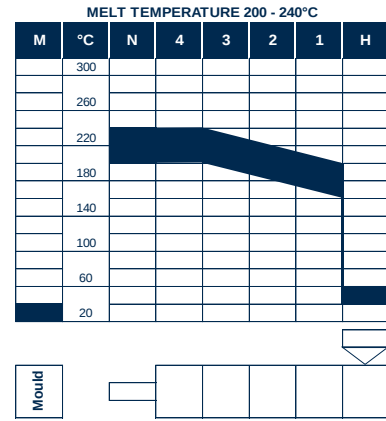
Blow moulding



Extrusion



Injection moulding



Processing

LF2220 can be processed on all standard processing equipment. Processing conditions need to be optimised, but the melt temperatures should typically be 160°C to 200°C for blow moulding and extrusion, and 200°C to 240°C for injection moulding.

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.

This publication contains information provided in good faith and is indicative, based on Sasol's current knowledge on the subject. No guarantee or warranty is intended or implied. We reserve the right to make changes as a result of technological progress or development. Any information, including suggestions for use of products, should not preclude experimental testing and verification, to ensure the suitability of a product for each specific application. Users must also abide by local and international laws and obtain all necessary permits when required to do so. Prior to handling a hazardous product, consult its safety data sheet. In case of questions or queries, please contact Sasol through our customer service channels. All products purchased or supplied by Sasol Chemicals are subject to the terms and conditions set out in the contract, order confirmation and/or bill of lading.