

LF0200 Low Density Polyethylene Technical Datasheet

Product Description:

LF0200 is a high molecular weight low density polyethylene film grade combining good flexible extrusion behavior and superior mechanical properties. Film made from LF0200 exhibits high dart impact combined with excellent yield and tensile strength and high stiffness. Its toughness bears even in cold temperatures. The film can be sealed on all types of machines. The film possesses good dimensional stability and is resistant to tearing and breaking. LF0200 contains antioxidant.

Specifications:

Property	Unit	Value	Test Method
MFI (190 °C/2.16 kg)	gr/10 min.	2	ASTM D 1238
Density	gr/ml	0.920	*TSTM 209 B
Softening point	°C	94	ASTM D 1525
Haze	%	15 max.	ASTM D 1003
Gloss @ 60	Gu	60 min.	ASTM D 523
Elongation @ break (MD)	%	330 min.	ASTM D 882
Elongation @ break (TD)	%	600 min.	ASTM D 882
Tensile @ break (MD)	kg/cm	160 min.	ASTM D 882
Dart impact	Gr	100 min.	ASTM D 1709

* TSTM = Toyo Soda Standard Test Method

The above data are typical laboratory average. They are intended to serve as guides only.

Applications:

LF0200 is well suited for wide range of applications due to its unique balance of properties. The superior mechanical properties will improve the functionality of the films. Examples;

- general purpose bags
- packaging of mechanical parts
- carrier bags
- coextruded milk bags
- low tension power cables insulation and industrial injection mouldings.



LF0200

LOW DENSITY POLYETHYLENE

Processing Conditions:

LF0200 can be easily processed in all types of extruders. The temperature of the polymer at the die output should be in the range of 160-180 °C. Minimum blow up ratio should be about 2 in order to keep a good balance of mechanical properties. To avoid blocking and shrinkage in the reel, the film temperature at the nip rollers and haul off should be kept as close as possible to the ambient temperature.

Storage:

The product should be stored in dry conditions at temperature below 60 °C and protected from UV light. Improper storage can initiate degradation with resulting odour generation and colour changes.

Health & Environment:

LF0200 is not classified as a dangerous product. Dust and fines from the product may give a risk for dust explosion. All equipment should be properly grounded. Inhalation of dust may irritate the respiratory system and should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation.

Recycling:

The product is suitable for recycling using modern methods of shredding and cleaning for other applications only if approved in the relevant standard or specification. In-house production waste should be kept clean to facilitate direct recycling. Dumping and land filling is also possible in agreement with the competent authorities.

Food Contact:


The composition of products complies with the EC Directive 90.128.EEC for use in food contact applications.

Packaging:

This product is packed in 25 Kg PE bags.

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