

# LF0200

## LOW DENSITY POLYETHYLENE

### 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.

### TYPICAL 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.

### TYPICAL PROPERTY VALUES

| TYPICAL PROPERTIES            | TYPICAL VALUES | UNITS              | TEST METHODS              |
|-------------------------------|----------------|--------------------|---------------------------|
| <b>POLYMER PROPERTIES</b>     |                |                    |                           |
| MFI (190 °C /2.16 kg)         | 2              | g/10 min           | ASTM D 1238               |
| Density                       | 0.920          | g/ml               | TSTM 209 B <sup>(1)</sup> |
| <b>MECHANICAL PROPERTIES</b>  |                |                    |                           |
| Tensile strength @ break (MD) | 160 min        | Kg.cm/cm           | ASTM D 882                |
| Elongation @ break (MD)       | 330 min        | gr/cm <sup>2</sup> | ASTM D 882                |
| Elongation @ break (TD)       | 600 min        | %                  | ASTM D 882                |
| Dart impact                   | 100 min        | gr                 | ASTM D 1709               |
| <b>THERMAL PROPERTIES</b>     |                |                    |                           |
| Vicat softening point         | 94             | °C                 | ASTM D 1525               |
| <b>OPTICAL PROPERTIES</b>     |                |                    |                           |
| Haze                          | 15 max         | %                  | ASTM D 1003               |
| Gloss @ 60                    | 60 min         | Gu                 | ASTM D 523                |

(1) TSTM = Toyo Soda Standard Test Method

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

### 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.

### Food Contact

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