



# 120W

Linear Low Density Polyethylene for Blown Film

## Product Description

120W is Linear Low Density Polyethylene grade suitable for general purpose packaging. Films produced using these resins gives good tensile properties, impact strength and excellent optical properties.

Formulation: 1500 ppm Slip & 3000 ppm Antiblock

## Typical Applications

Ice & frozen food bags, liners, produce bags, bread bags, textile & garment packaging etc.

## Typical data

| Properties                            | Unit              | Value <sup>(1)</sup> | ASTM Method  |
|---------------------------------------|-------------------|----------------------|--------------|
| Resin Properties                      |                   |                      |              |
| Melt Flow Rate @ 190°C & 2.16 kg load | g/10 min.         | 1                    | D 1238       |
| Density @ 23°C                        | kg/m <sup>3</sup> | 918                  | D 1505       |
| Mechanical Properties <sup>(2)</sup>  |                   |                      |              |
| Tensile Strength @ break, MD          | MPa               | 38                   | D 882        |
| TD                                    |                   | 30                   |              |
| Tensile Elongation @ break, MD        | %                 | 650                  | D 882        |
| TD                                    |                   | 810                  |              |
| Tensile Strength @ yield, MD          | MPa               | 10                   | D 882        |
| TD                                    |                   | 9                    |              |
| 1% Secant Modulus, MD                 | MPa               | 260                  | D 882        |
| TD                                    |                   | 270                  |              |
| Puncture Resistance                   | J/mm              | 60                   | SABIC Method |
| Dart Impact Strength                  | g                 | 120                  | D 1709       |
| Elmendorf Tear Strength, MD           | g                 | 160                  | D 1922       |
| TD                                    |                   | 350                  |              |
| Optical Properties <sup>(2)</sup>     |                   |                      |              |
| Haze                                  | %                 | 10                   | D 1003       |
| Gloss @ 60°                           | -                 | 90                   | D 2457       |
| Thermal Properties                    |                   |                      |              |
| Vicat Softening Point                 | °C                | 100                  | D 1525       |

(1) Typical values; not to be construed as specification limits.

(2) Properties have been measured by producing 30 µ film with 2.5 BUR using 100% 120W.

## Processing Conditions

Typical processing conditions for 120W are:

Melt temperature: 195 - 215°C

Blow up ratio: 2 - 3

**Food Regulation**

120W is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

**Storage and Handling**

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.