

LF 2125A

Low Density Polyethylene

Information & Polyethylene Sales

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Sasol Polymers Middle East FZE

Film

Application

LF 2125A is suitable for general purpose film, bubble film and sheet foam extrusion with physical blowing agents.

Additives

Antioxidant
Slip
Antiblock

General information

LF 2125A has been manufactured using Sabtec CTR® licensed technology and the appropriate manufacturing parameters and hence it is expected to be similar to **SABIC® LDPE 2102TN33** grade.

Performance properties – LF 2125A

| Test | Value | Unit | Test method |
|------------------------------|-------|-------------------|---------------|
| Physical Properties | | | |
| MFR (190°C/2.16kg) | 2.5 | g/10min | ISO 1133 |
| Density | 0.921 | g/cm ³ | ISO 1183 |
| Mechanical Properties | | | |
| Tensile stress at yield | 11 | MPa | ISO 527-1-2-3 |
| | 10 | MPa | |
| Tensile strength at break | 19 | MPa | |
| | 20 | MPa | |
| Strain at break | >100 | % | |
| | >500 | % | |
| Modulus of elasticity | 180 | MPa | |
| | 200 | MPa | |
| Tear strength | 25 | kN/m | ISO 6383-2 |
| | 20 | kN/m | |
| Impact strength | 23 | kJ/m | ASTM D 4272 |
| Coefficient of friction | 0.2 | | ASTM D 1894 |
| Blocking | <5 | g | ASTM D 3354 |
| Optical Properties | | | |
| Haze | 12 | % | ASTM D 1003 |
| Gloss(45°) | 50 | | ASTM D 2457 |
| Clarity | 30 | mV | Sabic method |

Film Properties

The Film properties have been measured on film of 25µm with a BUR of 3:1



Processing

Low Density polyethylene **LF 2125A** is a grade with good toughness and outstanding bi-axial shrink properties. The material has a high anti-block level and medium level of slip agent (Erucamide). The grade has low energy consumption during processing and has good draw down ability.

Packaging

Supplied in pallet form and can be packaged in 25kg bags.

Food Packaging

This material has been made with technology from SABTEC® with material and process parameters recommended by SABTEC®. In those circumstances where the product is to be used in food contact applications, the equivalent SABIC® grade information should be reviewed at www.SABIC-europe.com.

Conveying

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

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

we further recommend that good housekeeping will be practiced throughout the facility

Storage

As ultraviolet light may cause a change in the material, all resins should be protected from direct sunlight and/or heat during storage. The storage location should also be dry, dust free and the ambient temperature should not exceed 50°C. It is also advisable to process polyethylene resins (in pelletised or powder form) within 6 months after delivery, this because excessive aging of polyethylene can lead to a deterioration in quality.

Handling

Minimal protection to prevent possible mechanical or thermal injury to the eyes. Fabrication areas should be ventilated to carry away fumes or vapours.

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.