



ASPC

Process OptimizationDoc
Name:

Product Data sheet - LDPE- Low Density Polyethylene

LTM 2119X

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Doc No.

TEC-PRO-PDS-001

Rev: 4

کوثر شیمی

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Typical Data

| Properties | Value | unit | Test method |
|--------------------------------|-------|-------------------|---------------|
| Physical Properties | | | |
| MFI (190 °C /2 .16 Kg) | 1.9 | dg/min | ISO 1133 |
| Density | 921 | Kg/m ³ | ISO 1183 (A) |
| Mechanical properties | | | |
| Impact strength | 26 | KJ/m | ASTM D 4272 |
| Tear strength (TD) | 25 | KN/m | ISO 6383-2 |
| Tear Strength (MD) | 60 | KN/m | ISO 6383-2 |
| Yield stress (TD) | 11 | MPa | ISO 527 |
| Yield stress (MD) | 13 | MPa | ISO 527 |
| Tensile stress at break (TD) | 20 | MPa | ISO 527 |
| Tensile stress at break (MD) | 35 | MPa | ISO 527 |
| Strain at Break (TD) | >500 | % | ISO 527 |
| Strain at Break (MD) | >150 | % | ISO 527 |
| Modulus of Elasticity (TD) | 200 | MPa | ISO 527 |
| Modulus of Elasticity (MD) | 190 | MPa | ISO 527 |
| Coefficient of friction | | | |
| Blocking | 20 | g | SABTEC method |
| Re-blocking | 100 | g | SABTEC method |
| Optical properties | | | |
| Haze | 9 | % | ASTM D 1003A |
| Gloss (45°) | 55 | % | ASTM D 2457 |
| Clarity | 26 | mV | |
| Additive : Antioxidant | | | |

Film properties have been measured at 25µm with a BUR of 3.

Application

LTM 2119X is suitable for general purpose film and for lamination

General information

LTM 2119 X has been manufactured using SABTEC licensed technology.

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Processing

LTM 2119X is a general purpose grade without additives. This grade offers high output and excellent drawdown.

Packaging

Supplied in pellet form and can be packaged in 25kg bags, 1 ton semi bulk or 17 ton bulk.

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Food packaging

The above mentioned grade meets the relevant requirements of plastics directive 2002/72/EC (06-08-2002) and its amendments till directive 2008/39EC relating to plastic materials and articles intended to come into contact with foodstuffs.

Pharmaceutical Application

The above mentioned grade meets the requirements of the European pharmacopeia version 6 section 3.1.5 for pharmaceutical application.

Conveying

Conveying equipment should be designed prevent accumulation of 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 recommended that good housekeeping will 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 OC. It is also advisable to process polyethylene resins (in pelletized or powder form) within 6 months after delivery, this because also 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 vapors.

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 mist preferred. In enclosed areas, fire fighters should be provided with self contained breathing apparatus.