

SABIC® LLDPE 318B

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 318B is a butene linear low density polyethylene resin typically designed for easy processing and specially formulated for optimum thermal stability at high temperatures used in cast film extrusion. Cast film produced from SABIC® LLDPE 318B exhibit very good optical properties, puncture resistance and tear strength.

Application

Cast Film: SABIC® LLDPE 318B resin is typically used for hand and pallet stretch wrap.

Masterbatch Compounding: SABIC® LLDPE 318B is a general grade, typically used for low filled or additive masterbatches in film and blow moulding applications (e.g. slip agents, anti fog agents, anti static agents, thermal stabilizers).

This product is not intended for and must not be used in any pharmaceutical/medical applications.

| General Information | | | |
|--|-------------------------|----------|-------------|
| Additive | Antioxidation | | |
| Features | Low density | | |
| | Butene comonomer | | |
| | Optical | | |
| | Perforation resistance | | |
| | Antioxidation | | |
| | Workability, good | | |
| | Good tear strength | | |
| | Low liquidity | | |
| | Thermal stability, good | | |
| Uses | Composite | | |
| | Stretch winding | | |
| | cast film | | |
| | Masterbatch | | |
| Processing Method | Composite | | |
| | cast film | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.918 | g/cm³ | ISO 1183/A |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.8 | g/10 min | ISO 1133 |
| Films | Nominal Value | Unit | Test Method |
| Film Thickness - Tested | 20 | µm | |
| Elastic Recovery - Cast Film (20.0 µm) | 52 | % | ASTM D5459 |
| Protrusion Puncture Resistance - Cast Film (20.0 µm) | 2.00 | J | ASTM D5748 |
| Stress Retention - Cast Film (20.0 µm) | 78 | % | ASTM D5459 |

| | | | |
|---|----------------------|-------------|--------------------|
| Enthalpy Change | 114 | J/g | Internal method |
| Dart Impact - Cast Film (20.0 μm) | 26.0 | J/cm | ISO 7765-2 |
| Tear Strength - TD ¹ (20.0 μm) | 140.0 | kN/m | ISO 6383-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 102 | °C | ISO 306/A |
| Melting Temperature (DSC) | 121 | °C | Internal method |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (45°, 20.0 μm, Cast Film) | 91 | | ASTM D2457 |
| Haze (20.0 μm, Cast Film) | 2.1 | % | ASTM D1003 |
| Additional Information | Nominal Value | Unit | Test Method |
| Properties are determined on 20 μm cast stretch film produced on a 2 m commercial cast stretch line: melt temperature 270°C, chill roll temperature 20°C and line speed of 450 m/min. | | | |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 250 - 300 | °C | |
| NOTE | | | |

1. Cast Film

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