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TOTAL
**Refining & Chemicals**
Polymers

# Polyethylene Lumicene® mPE M 2735

Provisional technical data sheet
Metallocene Polyethylene CAST FILM
Produced in Europe

## Description

Lumicene® mPE M 2735 is a Lumicene® metallocene based Polyethylene with hexene as comonomer.

Lumicene® mPE M 2735 can be processed at high output rates with low extrusion pressure, low neck-in, excellent drawability and good gauge control. Together with these features, Lumicene® M 2735 ensures films with outstanding optical properties and excellent impact and tear resistance.

Lumicene® mPE M 2735 is suited for many applications in the field of cast film, stretch wrap film (low cling), hygiene film (f.e. diaper backsheet), lamination and artificial grass.

## Characteristics

| Property | Method | Unit | Typical value |
|---|---|---|---|
| Density | ISO 1183 | g/cm³ | 0.927 |
| Melt Flow Rate (190°C/2.16 kg) | ISO 1133 | g/10 min | 3.5 |
| Melting temperature | ISO 11357 | °C | 119 |
| Vicat temperature | ISO 306 | °C | 118 |

Values indicated are typical for this product. Density and MFR are properties routinely measured during "the standard quality control procedure". The other figures are generated by tests not included in the "standard quality control procedure", and are given for information only. Data are not intended for specification purposes.

## Processing

On a cast film line Lumicene® mPE M 2735 can be easily extruded in the following conditions:

- Melt temperature : 240 to 280°C
- Chill roll temperature : 20 to 60 °C

## Additives

Antioxidant : yes
PPA : no

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## Cast film properties

These values have been measured on a 20 µm cast film.

| Property | Method | Unit | Typical value (*) |
|---|---|---|---|
| Tensile Strength at Yield MD/TD (**) | ISO 527-3 | MPa | 9 / 9 |
| Tensile Strength at Break MD/TD (**) | ISO 527-3 | MPa | 39 / 24 |
| Elongation at Break MD/TD (**) | ISO 527-3 | % | 470 / 530 |
| Elmendorf MD/TD (**) | ISO 6383-2 | N/mm | 50 / 120 |
| Dart test | ISO 7765-1 | g | 100 |
| Haze | ISO 14782 | % | 1.3 |
| Gloss 45° | ASTM D2457 | | 89 |

(*) Figures stated hereabove are obtained using laboratory test specimens produced at the following extrusion conditions: die gap = 250 µm, chill roll temperature = 20°C, throughput = 7 kg/h, melt temperature = 260 °C

(**) MD : Machine Direction, TD : Transverse Direction