TotalEnergies

Refining & Chemicals
Polymers

Polyethylene Lumicene® mPE M 1835

Technical data sheet
Metallocene Polyethylene CAST FILM
Produced in Europe

Description

Lumicene® mPE M1835 is designed for high performance cast stretch film for mono and multi-layer film production.

Lumicene® mPE M1835 is a Metallocene based Low Density Polyethylene with hexene as comonomer.

Lumicene® mPE M1835 brings:

- High stretchability (up to 350%) in cast stretch film
- Oustanding Impact and Puncture Resistance
- Excellent Holding Force
- Very good Processability on small and large cast lines
- Very low gel level

Lumicene® mPE M 1835 is also suitable for other applications such as Surface Protection, Food Packaging, Hygiene Film and Cast Films. It exhibits an excellent blending-ability with LDPE and LLDPE was observed.

Characteristics

Property	Method	Unit	Typical value
Density	ISO 1183	g/cm³	0.918
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	g/10 min	3.5
Melting temperature	ISO 11357	°C	108.5
Vicat temperature	ISO 306	°C	99

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.

Polyethylene

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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	7/6.4
Tensile Strength at Break MD/TD (**)	ISO 527-3	MPa	36/39
Elongation at Break MD/TD (**)	ISO 527-3	%	385/588
Elmendorf MD/TD (**)	ISO 6383-2	N/mm	116/176
Dart test	ISO 7765-1	g	711
Haze	ISO 14782	%	2.7
Gloss 45°	ASTM D2457		80.7

(*) Figures stated here above 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

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: www.polymers.totalenergies.com.