

Description

Polypropylene Lumicene® MR 2002 is a metallocene homopolymer polypropylene for cast film.

The specific design of the metallocene grade Lumicene® MR 2002 provides an exceptional processability on cast film lines. Films made of Lumicene® MR 2002 display an outstanding set of properties, combining exceptional optics with a toughness above conventional homopolymer based cast films.

The extremely low extractable content is favorable for organoleptic properties.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	15
Mechanical properties			
Flexural modulus	ISO 178	MPa	1300
Thermal properties			
Melting Point	ISO 3146	°C	152
Other physical properties			
Density	ISO 1183	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525

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.totalpetrochemicals.biz

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Additional Properties: typical film properties

	Method	Unit	Typical Value
Optical properties			
Gloss 45°	ASTM D 2457		89
Haze	ISO 14782	%	1.3
Mechanical properties			
Tensile Strength at Yield MD / TD *	ISO 527-3	MPa	24 / 23
Tensile Strength at Break MD / TD *	ISO 527-3	MPa	44 / 33
Tensile Elongation at Break MD / TD *	ISO 527-3	%	550 / 550
Dart Impact	ISO 7765-1	g	320
Elmendorf MD / TD *	ISO 6383-2	N/mm	18 / 19

* MD : Machine Direction TD : Transverse Direction

Properties measured on a 50µm thick film produced on a cast film line following TOTAL internal conditions.

When considering these film properties, it should be taken into consideration that film properties are strongly dependent from processing conditions.

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