# TOTAL Polypropylene Lumicene® MR 2002

## Polypropylene Homopolymer

### **TOTAL Refining & Chemicals**

#### Message:

Polypropylene Lumicene<sup>®</sup> MR 2002 is a metallocene homopolymer polypropylene with a Melt Flow Index 15 g/10 min for cast film. The specific design of the metallocene grade Lumicene<sup>®</sup> MR 2002 provides an exceptional processability on cast film lines. Films made of Lumicene<sup>®</sup> 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.

Polypropylene Lumicene® MR 2002 is characterized by high fluidity for high speed spinning on spun laid non-woven lines where spun filaments are produced to form a web that is then thermally bonded to manufacture products for hygienic and technical uses.

Polypropylene Lumicene® MR 2002 has a special anti gas-fading formulation to reduce yellowing in fibres.

Fadures  Gas-fading Resistant    Good Organoleptic Properties  Good Processabiliy    Good Toughees  Good Toughees    Good Toughees  Good Toughees    Good Toughees  Good Toughees    Devis  False    File  File    Nonwores  File    Spurbond Nonwores  File    Processing Method  Cast File    File  File    File  Spurbond Nonwores    Processing Method  Cast File    File  Spurbond Nonwores    Processing Method  Cast File    File  Spurbond Nonwores    Processing Method  Cast File    File  Springing Extrusion    Spurbond Nonwores  Springing Extrusion    Protessing Method  Spring Cast Pile    Image:	General Information			
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	Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	50	μm	
Tensile Stress			ISO 527-3
MD : Yield, 50 µm, Cast Film	24.0	MPa	
TD : Yield, 50 μm, Cast Film	23.0	MPa	
MD : Break, 50 µm, Cast Film	44.0	MPa	
TD : Break, 50 µm, Cast Film	33.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 50 µm, Cast Film	550	%	
TD : Break, 50 μm, Cast Film	550	%	
Dart Drop Impact (50 µm, Cast Film)	320	g	ISO 7765-1
Elmendorf Tear Strength <sup>2</sup>			ISO 6383-2
MD : 50.0 μm	18.0	kN/m	
TD : 50.0 μm	19.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	152	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Cast Film)	89		ASTM D2457
Haze (50.0 µm, Cast Film)	1.3	%	ISO 14782
NOTE			
1.	Bulk		
2.	Cast Film		

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