



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

## Lumicene® Polypropylene M6571

Technical Data Sheet  
Metallocene Polypropylene – Random Copolymer  
Produced in the United States

### Description

**Polypropylene Lumicene® M6571** is produced with TotalEnergies Petrochemicals and Refining proprietary metallocene catalyst technology. It offers exceptional optical performance and low residual content compared to standard isotactic polypropylene.

**Applications: Lumicene® M6571** is designed specifically for use in film applications. It is suitable for both coextruded and monolayer cast films. In addition, it is suitable for use as a surface layer in biaxially oriented films.

### Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	9
<b>Physical Properties<sup>(1)(2)</sup></b>			
Tensile Strength @ Break (MD)	D-882	psi (MPa)	4,800 (35)
Elongation @ Break (MD)	D-882	%	700
1% Secant Modulus	D-882	psi (MPa)	100,000 (689)
Haze	D-1003	%	1
Gloss @ 45°	D-2457	%	80
WVTR	F-1249	g/day/100in <sup>2</sup> /mil	0.8
<b>Thermal Properties<sup>(1)(3)</sup></b>			
Melting Point	DSC	°F (°C)	289 (143)
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.9

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

(2) Non-oriented film – 2 mil (50 microns)

(3) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request

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TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.  
POLYMERS AMERICAS  
1201 Louisiana Street  
Suite 1800  
Houston, TX 77002  
www.polymers.totalenergies.com

TECHNICAL CENTER  
P.O. Box 1200  
Deer Park, Texas 77536  
Phone: 281-884-7500

1-800-344-3462