

TotalEnergies Petrochemicals & Refining USA, Inc.  
 Polymers Americas

## 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

Rev: Sept 2021

TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.  
 POLYMERS AMERICAS  
 1201 Louisiana Street  
 Suite 1800  
 Houston, TX 77002  
[www.polymers.totalenergies.com](http://www.polymers.totalenergies.com)

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

1-800-344-3462

Polypropylene



All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.

