

TotalEnergies Petrochemicals & Refining USA, Inc.  
 Polymers Americas

## Description

**Lumicene® Polypropylene M8670** 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.

**Heat Sealable:** M8670 produces films with excellent heat seal performance and outstanding optical properties.

### Recommended Applications:

M8670 is designed for use as a surface and heat sealable layer in the production of coextruded films, biaxially oriented or cast, due to its excellent optics, very low extractables and good sealant properties.

### Processing:

M8670 is a narrower molecular weight distribution product than conventional propylene copolymers. M8670 processes well on film extrusion equipment with typical melt temperatures of 390-450°F (200-232°C)

## Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	12
<b>Film Properties, Non Oriented<sup>(1)</sup></b>			
Ultimate Tensile	D-882	psi	4,500
Elongation at Break	D-882	%	700
1% Secant Modulus	D-882	psi	80,000
Haze	D-1003	%	0.2
Gloss, 45°	D-2457	%	70
Heat Seal Temperature	SIT <sup>(3)</sup>	°F (°C)	239 (115)
<b>Thermal Properties</b>			
Melting Point	DSC <sup>(2)</sup>	°F (°C)	271 (133)
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.90

(1) 2 mil (50 µm) film. Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

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

(3) Minimum seal strength is 200 g/inch at 60 psi pressure and 1 sec.

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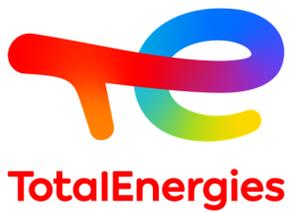
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Polypropylene



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.





# Lumicene® Polypropylene M8670

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

Polypropylene

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