



**TotalEnergies**

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## Lumicene® Polypropylene M8670

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

### 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</b>			
Flexural Modulus	D-790	psi (MPa)	- (-)
Tensile Modulus	D-638	psi (MPa)	- (-)
Tensile Strength (Yield)	D-638	psi (MPa)	- (-)
Tensile Elongation (Yield)	D-638	%	-
Izod (73°F, Notched)	D-256A	ft*lb/in	-
Izod (73°F, Unnotched)			-
Haze, 0.04" plaques	D-1003	%	-
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	271 (133)
Heat Deflection Temperature @ 66 psi	D-648	°F (°C)	- (-)
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.90

- (1) 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.