

TotalEnergies Petrochemicals & Refining USA, Inc.
 Polymers Americas

Description

Lumicene® Polypropylene M9675 is an isotactic propylene copolymer produced via TotalEnergies proprietary metallocene catalyst technology.

Heat Sealable: M9675 produces films with excellent heat seal performance and outstanding optical properties.

Recommended Applications:

M9675 is an excellent material for use as a heat sealable layer in production of coextruded biaxially oriented films due to its good processing, excellent optics, very low extractables, low seal initiation temperature and exceptional hot tack seal strength properties.

Processing:

M9675 is a narrower molecular weight distribution product than conventional propylene copolymers. M9675 processes well on film extrusion equipment with typical melt temperatures of 425-525°F (218-274°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	11
Film Properties, Non Oriented ⁽¹⁾			
Ultimate Tensile	D-882	psi	4,500
Elongation at Break	D-882	%	700
1% Secant Modulus	D-882	psi	55,000
Haze	D-1003	%	0.2
Gloss, 45°	D-2457	%	70
Heat Seal Temperature	SIT ⁽³⁾	°F (°C)	221 (105)
Thermal Properties ⁽²⁾			
Melting Point	DSC	°F (°C)	246 (119)
Other Physical Properties			
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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