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Lumicene® Polypropylene M3661

Technical Data Sheet
Metallocene Polypropylene – Homopolymer
Produced in the United States

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Description

Polypropylene Lumicene® M3661 is an isotactic form of homopolymer polypropylene made via TotalEnergies' proprietary metallocene catalyst technology.

Applications: Lumicene® M3661 is a medium molecular weight material recommended for cast film extrusion. However, due to its unique and interesting properties, other applications may exist.

Processing: Lumicene® M3661 is a lower crystallinity, narrower molecular weight distribution product than conventional polypropylene. Cast films produced from M3661 exhibit outstanding optical properties and toughness compared to standard materials.

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	14
Physical Properties(1)			
Tensile Strength @ Break	D-882, A	psi (MD/TD)	5,800 / 5,500
Elongation at Break	D-882, A	% (MD/TD)	720 / 810
1% Secant Modulus	D-882, A	kpsi (MD/TD)	81 / 82
Haze	D-1003	%	0.4
Gloss, 45°	D-2457	-	81
Thermal Properties(2)(3)			
Melting Point	DSC	°F (°C)	302 (150)
Other Physical Properties			
Density	D-1505	g/cc	0.9

(1) Non-oriented film – 2 mils (50 microns)
(2) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(3) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request

Polypropylene