



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

## Polypropylene 3270

Technical Data Sheet  
Polypropylene – Homopolymer  
Produced in the United States

### Description

**Polypropylene 3270** utilizes proprietary process technology to provide extremely low residuals for exceptional stiffness and barrier properties.

**FDA:** 3270 complies with applicable FDA regulations for use in food contact applications. FDA statement available upon request.

**Applications:** 3270 is recommended in orientation processes for manufacture of packaging tapes and films that benefit from improved stiffness and barrier properties.

**Processing:** 3270 processes on oriented film extrusion equipment with typical melt temperatures of 450°F-525°F (232°C-274°C).

### Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	2.0
<b>Film Properties, Oriented <sup>(1)(3)</sup></b>			
Haze	D-1003	%	1.0
Gloss, 45°	D-2457	%	85
Ultimate Tensile	D-882	psi MD (TD)	28,000 (39,000)
Elongation	D-882	% MD (TD)	150 (60)
Tensile Modulus	D-882	psi MD (TD)	420,000 (700,000)
WVTR @ 100°F, 90% RH	F-1249-90	g/100 in <sup>2</sup> /24 hrs/mil	0.2
<b>Thermal Properties <sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	329 (165)
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.91

Polypropylene

- (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.  
(3) Tenter-frame oriented film.

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