

## Technical Information



# DOWLEX™ 2035G

## Polyethylene Resin

### Overview

DOWLEX™ 2035G Polyethylene Resin is suitable for the production of cast films where low orientation in the film and ease of processing are primary considerations.

#### Applications:

- Cast Film

#### Complies with:

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)3.2a
- Canadian HPFB No Objection

Consult the regulations for complete details.

### Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.919 g/cm <sup>3</sup>	0.919 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ISO 1133
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	23 µm	
Tensile Strength <sup>1</sup>			ASTM D882
MD : Yield, 0.91 mil (23 µm), Cast Film	1020 psi	7.00 MPa	
TD : Yield, 0.91 mil (23 µm), Cast Film	1020 psi	7.00 MPa	
MD : Break, 0.91 mil (23 µm), Cast Film	3770 psi	26.0 MPa	
TD : Break, 0.91 mil (23 µm), Cast Film	2900 psi	20.0 MPa	
Tensile Elongation <sup>1</sup>			ASTM D882
MD : Break, 0.91 mil (23 µm), Cast Film	520 %	520 %	
TD : Break, 0.91 mil (23 µm), Cast Film	690 %	690 %	
Dart Drop Impact <sup>1</sup>			ASTM D1709A
0.91 mil (23 µm), Cast Film	120 g	120 g	
Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 0.91 mil (23 µm), Cast Film	250 g	250 g	
TD : 0.91 mil (23 µm), Cast Film	490 g	490 g	
Film Stretch Performance - Max Elongation <sup>4</sup>	340 %	340 %	ASTM D4649
Film Stretch Performance - Increasing Tear - @ Maximum Elongation <sup>2</sup>	47 %	47 %	ASTM D4649
Film Stretch Performance - Load on Pallet <sup>4</sup>	13000 g	13000 g	ASTM D4649
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	207 °F	97.0 °C	ISO 306/A
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss <sup>1</sup> (20°, 0.906 mil (23.0 µm), Cast Film)	148	148	ASTM D2457
Haze <sup>1</sup> (0.906 mil (23.0 µm), Cast Film)	0.700 %	0.700 %	ASTM D1003
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	428 to 536 °F	220 to 280 °C	

### Extrusion Notes

Fabrication Conditions For Cast Film Extrusion:

- Chill Roll Temperature: 20 to 60°C.
- Melt Temperature: 220 to 280°C.
- Haul-Off Speed: 150 to 300 m/min.
- Recommended Gauge Range: 10 to 60 µm.

**Notes**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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<sup>1</sup> 150 m/min, chill roll 25°C.

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<sup>2</sup> 23 µm cast film, 150 m/min, chill roll 25°C.

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