

# 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

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	0.91 mil	23 µm	
Tensile Strength			ASTM D882 <sup>1</sup>
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			ASTM D882 <sup>1</sup>
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			ASTM D1709A <sup>1</sup>
0.91 mil (23 µm), Cast Film	120 g	120 g	
Elmendorf Tear Strength			ASTM D1922 <sup>1</sup>
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	340 %	340 %	ASTM D4649 <sup>4</sup>
Film Stretch Performance - Increasing Tear - @ Maximum Elongation	47 %	47 %	ASTM D4649 <sup>2</sup>
Film Stretch Performance - Load on Pallet	13000 g	13000 g	ASTM D4649 <sup>4</sup>
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 (20°, 0.906 mil (23.0 µm), Cast Film)	148	148	ASTM D2457 <sup>1</sup>
Haze (0.906 mil (23.0 µm), Cast Film)	0.70 %	0.70 %	ASTM D1003 <sup>1</sup>
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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This document is intended for use within Europe

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