

## 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/cm³	0.919	g/cm³	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 1
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 1
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 1
0.91 mil (23 µm), Cast Film	120	g	120	g	
Elmendorf Tear Strength					ASTM D1922 1
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 Performace - Max Elongation	340	%	340	%	ASTM D4649 <sup>2</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>2</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.

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Rev: 2012-01-11

#### **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>&</sup>lt;sup>1</sup> 150 m/min, chill roll 25°C.

 $<sup>^2</sup>$  23  $\mu m$  cast film, 150 m/min, chill roll 25°C.

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