

## DOWLEX™ SC 2106G Polyethylene Resin

### Overview

DOWLEX™ SC 2106G is processable at high line speeds. Films made from DOWLEX SC 2106G Polyethylene Resin exhibit excellent stretchability, tear and impact resistance, as well as exceptional optical properties.

#### Applications:

- Cast stretch wrap film

#### Main Characteristics:

- Linear Low Density Polyethylene

#### Complies with:

- U.S. FDA FCN 424
- EU, No 10/2011

Consult the regulations for complete details.

### Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.917 g/cm <sup>3</sup>	0.917 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.3 g/10 min	3.3 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)	899 psi	6.20 MPa	
TD: Yield, 0.91 mil (23 µm)	798 psi	5.50 MPa	
MD: Break, 0.91 mil (23 µm)	5510 psi	38.0 MPa	
TD: Break, 0.91 mil (23 µm)	3050 psi	21.0 MPa	
Tensile Elongation			ASTM D882 <sup>1</sup>
MD: Break, 0.91 mil (23 µm)	500 %	500 %	
TD: Break, 0.91 mil (23 µm)	780 %	780 %	
Dart Drop Impact (0.91 mil (23 µm))	140 g	140 g	ASTM D1709A <sup>1</sup>
Elmendorf Tear Strength			ASTM D1922 <sup>2</sup>
MD: 0.91 mil (23 µm)	320 g	320 g	
TD: 0.91 mil (23 µm)	530 g	530 g	
Film Stretch Performace - Max Elongation	260 %	260 %	Dow Method <sup>3</sup>
Film Stretch Performace - Max Stretch to Puncture			Dow Method <sup>4</sup>
--	155	155	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 0.906 mil (23.0 µm))	93	93	ASTM D2457 <sup>1</sup>
Haze (0.906 mil (23.0 µm))	0.60 %	0.60 %	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:

- Melt Temperature: 220-280°C
- Chill Roll Temperature: 20-60°C
- Haul-Off Speed: 150-450 m/min
- Recommended Gauge Range: 10-60 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> Cast film, 250 m/min; Chill roll 25°C.

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<sup>2</sup> Method B; Cast film, 250 m/min; Chill roll 25°C.

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<sup>3</sup> Cast film, 250 m/min, Chill roll 25°C; Measured on test stand.

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<sup>4</sup> Cast film, 250 m/min, Chill roll 25°C; Measured on test stand; Max pre-strech before sharp probe penetrates.

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