



# DOWLEX™ SC 2108G

## Polyethylene Resin

### Overview

DOWLEX™ 2108G Linear Low Density Polyethylene Resin is suitable for the production of cast films with high stiffness, good tear strength and outstanding toughness. It can be used in skin layers of coextruded cast films made from DOWLEX resins to provide a surface with good slip properties.

Complies with:

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

Consult the regulations for complete details.

Slip Additive: No

Antiblock Additive: No

### Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.935 g/cm <sup>3</sup>	0.935 g/cm <sup>3</sup>	ASTM D1505
Melt Index (190°C/2.16 kg)	2.6 g/10 min	2.6 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Film Thickness - Tested	1 mil	25 µm	
Tensile Strength			ASTM D882
MD : Yield, 0.98 mil (25 µm)	1890 psi	13.0 MPa	
TD : Yield, 0.98 mil (25 µm)	1890 psi	13.0 MPa	
MD : Break, 0.98 mil (25 µm)	6240 psi	43.0 MPa	
TD : Break, 0.98 mil (25 µm)	4060 psi	28.0 MPa	
Tensile Elongation			ASTM D882
MD : Break, 0.98 mil (25 µm)	700 %	700 %	
TD : Break, 0.98 mil (25 µm)	830 %	830 %	
Dart Drop Impact (0.98 mil (25 µm))	> 60 g	> 60 g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 0.98 mil (25 µm)	35 g	35 g	
TD : 0.98 mil (25 µm)	640 g	640 g	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	244 °F	118 °C	ASTM D1525
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (45°, 0.984 mil (25.0 µm))	89	89	ASTM D2457
Haze (0.984 mil (25.0 µm))	3.10 %	3.10 %	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:

- Melt Temperature: 220 - 280°C
- Chill Roll (primary/secondary) Temperature 20 - 60°C
- Line Speed: 150 - 300m/min
- Recommended Gauge Range: 10 - 60 µm

