



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 ³	0.919 g/cm ³	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 ¹			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 ¹			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 ¹			ASTM D1709A
0.91 mil (23 µm), Cast Film	120 g	120 g	
Elmendorf Tear Strength ¹			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 ²	340 %	340 %	ASTM D4649
Film Stretch Performance - Increasing Tear - @ Maximum Elongation ²	47 %	47 %	ASTM D4649
Film Stretch Performance - Load on Pallet ²	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 ¹ (20°, 0.906 mil (23.0 µm), Cast Film)	148	148	ASTM D2457
Haze ¹ (0.906 mil (23.0 µm), Cast Film)	0.70 %	0.70 %	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.

¹ 150 m/min, chill roll 25°C.

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

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Additional Information

North America		Europe/Middle East	+800-3694-6367
U.S. & Canada:	1-800-441-4369		+31-11567-2626
	1-989-832-1426	Italy:	+800-783-825
Mexico:	+1-800-441-4369		
Latin America		South Africa	+800-99-5078
Argentina:	+54-11-4319-0100		
Brazil:	+55-11-5188-9000		
Colombia:	+57-1-219-6000	Asia Pacific	+800-7776-7776
Mexico:	+52-55-5201-4700		+603-7965-5392

www.dowplastics.com

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