

DOWLEX™ 2035G

Polyethylene Resin

The Dow Chemical Company

Message:

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.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	23	µm	
Tensile Strength ¹			ASTM D882
MD: Yield, 23 µm, extruded film	7.00	MPa	ASTM D882
TD: Yield, 23 µm, extruded film	7.00	MPa	ASTM D882
MD: Fracture, 23 µm, extruded film	26.0	MPa	ASTM D882
TD: Fracture, 23 µm, extruded film	20.0	MPa	ASTM D882
Tensile Elongation ²			ASTM D882
MD: Fracture, 23 µm, extruded film	520	%	ASTM D882
TD: Fracture, 23 µm, extruded film	690	%	ASTM D882
Dart Drop Impact ³ (23 µm, Cast Film)	120	g	ASTM D1709A
Elmendorf Tear Strength ⁴			ASTM D1922
MD: 23 µm, cast film	250	g	ASTM D1922
TD: 23 µm, cast film	490	g	ASTM D1922
Film tensile properties-load on pallets ⁵	13000	g	ASTM D4649
Film tensile properties-improve tear strength-@ Maximum stretch rate ⁶	47	%	ASTM D4649
Film Tensile Properties-Maximum Elongation ⁷	340	%	ASTM D4649
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	97.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss ⁸ (20 °, 23.0 μm, cast film)	148		ASTM D2457
Haze ⁹ (23.0 μm, Cast Film)	0.70	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 280	°C	
Extrusion instructions			

铸造薄膜挤出的制造条件:
冷却辊温度:20 至 60°C.
熔体温度:220 至 280°C.
脱离速度:150 至 300 米/分.
建议的厚度范围:10 至 60 μm.

NOTE	
1.	150 m/min; Cooling roller 25 c.
2.	150 m/min; Cooling roller 25 c.
3.	150 m/min; Cooling roller 25 c.
4.	150 m/min; Cooling roller 25 c.
5.	23 μm cast film, 150 m/min, cooling roller 25°C.
6.	23 μm cast film, 150 m/min, cooling roller 25°C.
7.	23 μm cast film, 150 m/min, cooling roller 25°C.
8.	150 m/min; Cooling roller 25 c.
9.	150 m/min; Cooling roller 25 c.

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