

# DOWLEX™ 2645.01G

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX 2645.01G™ Polyethylene Resin is designed for the production of a wide variety of industrial and consumer films (though it is not recommended for silage stretch film). Films made from this resin exhibit a combination of excellent toughness and tear resistance. The product also delivers very good processability on conventional LLDPE machinery. DOWLEX 2645.01G Polyethylene Resin contains slip and antiblock additives.

### Applications:

Various industrial and consumer film

### Complies with:

U.S. FDA 21 CFR 177.1520(c)3.2a.

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (2000 ppm)		
	Sliding agent (800 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Energy (50 µm)	5.80	J	ASTM D5748
Film Puncture Force (50 µm)	76.0	N	ASTM D5748
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	139	MPa	ISO 527-3
2% secant, TD: 50 µm	147	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	7.50	MPa	ISO 527-3
TD: Yield, 50 µm	6.30	MPa	ISO 527-3
MD: Break, 50 µm	39.0	MPa	ISO 527-3
TD: Break, 50 µm	40.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	560	%	ISO 527-3
TD: Break, 50 µm	670	%	ISO 527-3
Dart Drop Impact (50 µm)	480	g	ISO 7765-1/A

Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 50 μm	560	g	ASTM D1922
TD : 50 μm	910	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	107	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	43		ASTM D2457
Haze (50.0 μm)	18	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	
Extrusion instructions			
吹塑薄膜的制造条件: 模具间隙:1.5 - 2.5 mm 熔体温度:190 至 240°C 放大比:1.5 比 3.1			
NOTE			
1.	Method B		

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