

# DOWLEX™ 4056.01G

Polyethylene Resin  
The Dow Chemical Company

Message:

DOWLEX™4056.01G is a linear low-density resin used in high-quality blown films. These blown films require a combination of excellent optical properties, tear strength, sealing and excellent processing properties. The low gel content of DOWLEX 4056.01G makes it particularly suitable for composite films and other special packaging applications. The resin contains slip agent and anti-blocking agent.  
Meet the following regulatory requirements:  
European Union (EU) No 10/2011  
U.S. Food and Drug Administration (U.S. FDA) FCN 741  
please refer to the regulations for detailed information.

General Information			
Additive	Anti-caking agent (2000 ppm)		
	Sliding agent (800 ppm)		
Agency Ratings	FDA FCN 741		
	European food contact, not rated		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.15		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Puncture Energy			Internal method
25 µm	1.70	J	Internal method
50 µm	4.30	J	Internal method
Film Puncture Force			Internal method
25 µm	8.60	N	Internal method
50 µm	10.8	N	Internal method
Film Puncture Resistance			Internal method
25 µm	103	J/cm <sup>3</sup>	Internal method
50 µm	124	J/cm <sup>3</sup>	Internal method
Dart Drop Impact			ASTM D1709A
25 µm	250	g	ASTM D1709A
50 µm	370	g	ASTM D1709A
Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 25 µm	280	g	ASTM D1922

MD : 50 μm	650	g	ASTM D1922
TD : 25 μm	420	g	ASTM D1922
TD : 50 μm	750	g	ASTM D1922
Seal Initiation Temperature <sup>2</sup>			Internal method
25 μm	105	°C	Internal method
50 μm	105	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 25.0 μm <sup>3</sup>	81		ASTM D2457
45°, 25.0 μm	65		ASTM D2457
45°, 25.0 μm <sup>4</sup>	75		ASTM D2457
45°, 50.0 μm	64		ASTM D2457
45°, 50.0 μm <sup>5</sup>	71		ASTM D2457
45°, 50.0 μm <sup>6</sup>	80		ASTM D2457
Haze			ASTM D1003
25.0 μm <sup>7</sup>	4.2	%	ASTM D1003
25.0 μm	6.3	%	ASTM D1003
25.0 μm <sup>8</sup>	4.2	%	ASTM D1003
50.0 μm	9.6	%	ASTM D1003
50.0 μm <sup>9</sup>	5.1	%	ASTM D1003
50.0 μm <sup>10</sup>	5.1	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	217	°C	
Extrusion instructions			
吹塑薄膜的制造条件: 熔体温度:217°C 模具直径:200 mm. 放大比:2 比 1			
NOTE			
1.	Method B		
2.	Realize the temperature of 8.8N/25MM heat sealing strength. Heat seal strength, Topwave HT tester 0.5 S holding pressure, 40 psi pressure, pulling speed (100 mm/s).		
3.	LDPE with 20%		
4.	LDPE with 40%		
5.	LDPE with 40%		
6.	LDPE with 20%		
7.	LDPE with 20%		
8.	LDPE with 40%		
9.	LDPE with 20%		
10.	LDPE with 40%		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

