

# DOWLEX™ 4056G

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™4056G 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 performance. The low gel content of DOWLEX 4056G makes it particularly suitable for composite films and other special packaging applications.

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			
Agency Ratings	FDA FCN 741		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.917	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
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>			
25 μm	105	°C	
50 μm	105	°C	
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>	80		ASTM D2457
45°, 50.0 μm <sup>6</sup>	71		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℃  
模具直径:200 mm.  
放大比:2 比 1

NOTE	
1.	Method B
	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).
2.	
3.	LDPE with 20%
4.	LDPE with 40%
5.	LDPE with 20%
6.	LDPE with 40%
7.	LDPE with 20%
8.	LDPE with 40%
9.	LDPE with 20%
10.	LDPE with 40%

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