# DOWLEX<sup>™</sup> 2085G

## Linear Low Density Polyethylene Resin

### The Dow Chemical Company

#### Message:

DOWLEX\* 2085G Polyethylene Resin is an ethylene-octene copolymer designed for general purpose thin gauge film applications. It is perfect for high strength consumer trash bags/liners. This product can be used in other applications that require toughness and also offers good melt strength for high throughput rates.

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.2a Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (5100 ppm) Sliding agent (917 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Film Puncture Energy	3.95	J	Internal method
Film Puncture Force	53.4	Ν	Internal method
Film Puncture Resistance	20.7	J/cm <sup>3</sup>	Internal method
Film strength			ASTM D882
MD	70.3	J/cm <sup>3</sup>	ASTM D882
TD	82.7	J/cm <sup>3</sup>	ASTM D882
secant modulus			ASTM D882
1% secant, MD	172	МРа	ASTM D882
2% secant, MD	152	MPa	ASTM D882
1% secant, TD	179	MPa	ASTM D882
2% secant, TD	159	МРа	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	8.27	МРа	ASTM D882
TD: Yield	8.96	MPa	ASTM D882
MD: Fracture	34.5	MPa	ASTM D882
TD: Fracture	27.6	МРа	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	450	%	ASTM D882

TD: Fracture	600	%	ASTM D882
Dart Drop Impact	800	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	350	g	ASTM D1922
TD	600	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	105	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
			ASTM D2457
Gloss (45°)	30		ASTIM D2457
Gloss (45°) Haze	30 23	%	ASTM D2457

Fabrication Conditions For Blown Film: Screw Size: 3.5 in. (63.5 mm) 30:1 L/D/Size Screw Type: DSB II Die Gap: 70 mil (1.75 mm) Melt Temperature: 420°F Output: 12 lb/hr/in. of die circumference Die Diameter: 8 in. Blow-Up Ratio: 2.5:1 Screw Speed: 40 rpm Frost Line Height: 39 in.

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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

