

DOWLEX™ 2045.01 G

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX 2045.01G Polyethylene Resin is designed for the production of a wide variety of industrial and consumer films. 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 2045.01G Polyethylene Resin contains slip and antiblock additives.

Applications:

Thin gauge industrial & consumer films

Heavy duty films

Complies with:

EU, No 10/2011

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

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		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	19.0	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	346	J/cm ³	ASTM D882
TD : 51 µm	351	J/cm ³	ASTM D882
secant modulus			ASTM D882
2% secant, MD: 51 µm	194	MPa	ASTM D882
2% secant, TD: 51 µm	233	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	11.0	MPa	ASTM D882
TD: Yield, 51 µm	12.0	MPa	ASTM D882
MD: Fracture, 51 µm	55.0	MPa	ASTM D882
TD: Fracture, 51 µm	50.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	830	%	ASTM D882

TD: Fracture, 51 µm	890	%	ASTM D882
Dart Drop Impact (51 µm)	290	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	900	g	ASTM D1922
TD : 51 µm	1200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	108	°C	ASTM D1525
Melting Temperature	122	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 51.0 µm)	54		ASTM D2457
Haze (51.0 µm)	13	%	ASTM D1003

Additional Information

薄膜和光学属性:吹塑薄膜,BUR 2.5.

Extrusion	Nominal Value	Unit
Melt Temperature	190 - 240	°C

Extrusion instructions

管形薄膜挤出的制造条件:

模具间隙:1.6 至 2.5 mm

熔体温度:190 至 240°C

放大比范围:1.50 至 3:1.

建议的厚度范围:10 至 150 µm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT