

# DOWLEX™ NG 2049B

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ NG 2049B is a Linear Low Density Polyethylene, 1-Octene copolymer, produced with the SOLUTION™ technology. This resin is an excellent option when an increase in modulus is required while maintaining mechanical properties. This resin presents outstanding optical properties, allowing high quality impression.

Main Characteristics:

Excellent combination of modulus and mechanical properties

Outstanding optical properties

Complies with:

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

Suitable for food contact: Report # 2183/07 issued by INAL according to MERCOSUR.

Consult the regulations to obtain complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.926	g/cm <sup>3</sup>	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	38	µm	
Film Puncture Resistance (3700 µm)	10.0	J/cm <sup>3</sup>	Internal method
secant modulus			ASTM D882
2% secant, MD	235	MPa	ASTM D882
2% secant, TD	281	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm	13.0	MPa	ASTM D882
TD: Yield, 38 µm	15.0	MPa	ASTM D882
MD: Fracture, 38 µm	48.0	MPa	ASTM D882
TD: Fracture, 38 µm	42.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	630	%	ASTM D882
TD: Fracture, 38 µm	740	%	ASTM D882
Dart Drop Impact (38 µm)	220	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	350	g	ASTM D1922
TD : 38 µm	800	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 37.5 µm)	80		ASTM D2457
Haze (37.5 µm)	9.0	%	ASTM D1003

#### Additional Information

吹塑薄膜的加工条件:  
模具间隙:0.8-2-8 mm  
熔体温度:190 - 250 °C  
放大比:1.5 - 3.5

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

