

# DOWLEX™ NG 2045B

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ NG 2045B is a Linear Low Density Polyethylene resin, octene copolymer, produced via the Solution process. This resin exhibits excellent thermal stability at a wide range of processing conditions. Films made with this resin present a combination of excellent puncture, impact and tear resistance.

Main Characteristics:

Films for heavy duty applications like industrial bags and general use bags

Films for agricultural applications

Coextruded films

Complies with:

FDA 21 CFR 177.1520(c)3.2a

EU, No 10/2011

Canadian HPFB No Objection

General Information			
Agency Ratings	EU No 10/2011 FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection		
Forms	Pellets		
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)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
Film Puncture Resistance (38 µm)	10.9	J/cm <sup>3</sup>	Internal Method
Secant Modulus			ASTM D882
2% Secant, MD : 38 µm	195	MPa	
2% Secant, TD : 38 µm	226	MPa	
Tensile Strength			ASTM D882
MD : Yield,38 µm	11.0	MPa	
TD : Yield,38 µm	11.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 38 µm	840	%	
TD : Break, 38 µm	1100	%	
Dart Drop Impact (38 µm)	250	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	590	g	
TD : 38 µm	880	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 37.5 µm)	61		ASTM D2457

Haze (37.5 μm)	11	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	217	°C	

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

