

DOWLEX™ NG 5066G

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ NG 5066G polyethylene resin is an ethylene-octene -1 copolymer, which is suitable for the production of blown films. These blown films require good tear strength and excellent toughness as well as good stiffness and high and low temperature resistance. Typical applications include composite films.

Application field:

High transparency coated film

fresh product packaging bag

food packaging film

composite film

Meet the following regulatory requirements:

European Union (EU) No 10/2011

U.S. Food and Drug Administration (U.S. FDA) 21 CFR 177.1520(c)3.2a

Health Products and Food Agency of Canada (HPFB)(No Objection)

please refer to the regulations for detailed information.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.934	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.7	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	420	MPa	ISO 527-3
2% secant, TD: 50 µm	470	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	14.0	MPa	ISO 527-3
TD: Yield, 50 µm	17.0	MPa	ISO 527-3
MD: Break, 50 µm	21.0	MPa	ISO 527-3
TD: Break, 50 µm	23.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	590	%	ISO 527-3
TD: Break, 50 µm	620	%	ISO 527-3
Dart Drop Impact (50 µm)	110	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	130	g	ASTM D1922

TD : 50 μm	230	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	
Extrusion instructions			

制造条件:
 模具间隙 2.5 mm
 熔体温度:190 至 240°C
 放大比:1.5 至 3:1
 建议的厚度范围:10 至 150 μm

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