

DOWLEX™ 3010

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 3010 Polyethylene Resin is a polyethylene polymer designed to offer high performance properties such as excellent Environmental Stress Crack Resistance (ESCR), tear strength, abrasion resistance, and strong heat seals in thin extrusion coatings.

Linear Low Density Polyethylene

For flexible packaging, overwraps and lamination applications

Complies with:

U.S. FDA 21 CFR 177.1520 (c)

Canadian HPFB No Objection (With Limitations)

EU, No 10/2011

Japan Hygienic Styrene Plastics Association

This resin may be used to manufacture articles for use in packing or holding food during cooking. This statement refers to the extraction limitations only, not to the product's physical utility.

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c)		
	HPFB (Canada) No Objection 2		
	JHOSPA not rated		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.4	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction ¹ (vs. Itself - Dynamic)	0.60		ASTM D1894
Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature ²	115	°C	Internal method
Water Vapor Transmission Rate ³	0.63	g · mm/m ² /atm/24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Melting Temperature (DSC)	124	°C	Internal method
Extrusion	Nominal Value	Unit	Test Method
Melt Temperature	316 - 327	°C	
Neck-in (321°C, 25.4 µm)	124.5	mm	Internal method
Maximum production line speed	8.1	m/sec	Internal method
Minimum coating thickness	7.1	µm	Internal method
Minimum coating weight	6.8	g/m ²	Internal method

Extrusion instructions

挤出涂层薄膜的制造条件:

螺杆尺寸:3.5" (89 mm) 30:1 L/D

螺杆类型:带 Maddock Mixer 的单跨型

模具间隙:20 密尔 (0.508 mm)

熔体温度:600 °F (315 °C)

输出:250 磅/小时

螺杆速度:90 rpm

NOTE

- | | |
|----|--|
| 1. | 1.0 Mill (25 μ m) coating applied to 50 pounds of kraft paper. |
| 2. | 1.0 Mill (25 μ m) coating applied to 50 pounds of kraft paper. Achieve a temperature of 1 psig (4.4 N/25.4mm) heat seal strength. Heat seal strength, Topwave HT tester 0.5 S pressure, 40 psi pressure, pulling speed 150 mm/s. |
| 3. | 1.0 Mill (25 μ m) coating applied to 50 pounds of kraft paper. |

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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

