

DOW™ LDPE 751A

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

A high additive film resin for general packaging applications

For cast film extrusion

A fast blooming resin for high speed bag conversion

Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.

Complies with Canadian HPFB No Objection (With Limitations)

Complies with EU, No 10/2011

Complies with Japan Hygienic Olefin and Styrene Plastics Association

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (2900 ppm)		
	Sliding agent (2640 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	HPFB (Canada) No Objection 2		
	JHOSPA not rated		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.4	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Resistance (20 µm)	0.910	J/cm ³	Internal method
Film strength			ASTM D882
MD : 20 µm	78.7	J/cm ³	ASTM D882
TD : 20 µm	94.4	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	13.9	MPa	ASTM D882
TD: Yield, 20 µm	11.4	MPa	ASTM D882
MD: Break, 20 µm	32.4	MPa	ASTM D882
TD: Break, 20 µm	12.8	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Break, 20 μm	150	%	ASTM D882
TD: Break, 20 μm	440	%	ASTM D882
Dart Drop Impact (20 μm)	25	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm	200	g	ASTM D1922
TD : 20 μm	100	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.1	°C	ASTM D1525
Melting Temperature (DSC)	113	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 μm)	80		ASTM D2457
Haze (20.3 μm)	4.4	%	ASTM D1003
Extrusion instructions			

铸造薄膜的制造条件:

螺杆 A,尺寸:2 英寸 (51 mm);30:1 L/D

熔体温度:449°F (232°C)

螺杆速度:54 rpm

螺杆 B,尺寸:2.5 英寸 (63.5 mm); 30:1 L/D

熔体温度:449°F (232°C)

螺杆速度:36 rpm

螺杆 C,尺寸:2.5 英寸 (63.5 mm);30:1 L/D

熔体温度:450°F (232°C)

螺杆速度:38 rpm

螺杆 D,尺寸:2.5 英寸 (63.5 mm);30:1 L/D

熔体温度:450°F (232°C)

螺杆速度:37 rpm

螺杆 E,尺寸:2 英寸 (51 mm);30:1 L/D

熔体温度:449°F (232°C)

螺杆速度:43 rpm

螺杆类型:DSB II

模具间隙:25 密尔 (0.6 mm)

冷却辊温度:70°F (21°C)

生产线速度:600 fpm(183 米/分)

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