

DOW™ LDPE 133A

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

A medium anti-block resin for heavy duty film applications

Optimum gauge range: 2.0-6.0 mil

Used for thick gauge film applications

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 2.2.

Canadian HPFB No Objections (With Limitations)

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (3000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	HPFB (Canada) No Objection 2		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	3.64	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	135	J/cm ³	ASTM D882
TD : 51 µm	186	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	13.3	MPa	ASTM D882
TD: Yield, 51 µm	11.6	MPa	ASTM D882
MD: Fracture, 51 µm	24.8	MPa	ASTM D882
TD: Fracture, 51 µm	26.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	330	%	ASTM D882
TD: Fracture, 51 µm	620	%	ASTM D882
Dart Drop Impact (51 µm)	250	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	300	g	ASTM D1922

TD : 51 μm	200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Melting Temperature (DSC)	111	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 μm)	46		ASTM D2457
Haze (50.8 μm)	14	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	215	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm);30:1 L/D

螺杆类型:单跨双混合

模具间隙:40 密尔 (1.0 mm)

熔体温度:419°F (215°C)

输出:模具周长的 10 磅/小时/英寸

模具直径:6 英寸

放大比:2.5:1

螺杆速度:99 rpm

冷冻线高度:30 分钟 (762 mm)

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