

ELITE™ AT 6101

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE™ AT 6101 Enhanced Polyethylene Resin is a copolymer produced via INSITE™ technology from Dow. It is designed for stretch hooder application and offers a unique combination of holding force, elastic recovery, optics and toughness.

Main Characteristics:

Excellent elastic recovery and holding force

Very high impact resistance and tear properties

Ease of processing

Complies with:

U.S. FDA 21 CFR 175.105(c)(5)

EU, 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings		FDA 21 CFR 175.105(c) (5)	
		Europe 10/1/2011 12:00:00 AM	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	5.65	J	Internal method
Film Puncture Force	57.8	N	Internal method
Film Puncture Resistance	29.0	J/cm³	Internal method
Film strength			ASTM D882
MD	66.2	J/cm³	ASTM D882
TD	70.3	J/cm³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	88.3	MPa	ASTM D882
2% secant, MD	82.7	MPa	ASTM D882
1% secant, TD	89.6	MPa	ASTM D882
2% secant, TD	82.7	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	5.86	MPa	ASTM D882
TD: Yield	5.52	MPa	ASTM D882
MD: Fracture	44.8	MPa	ASTM D882
TD: Fracture	37.9	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Fracture	390	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact	800	g	ASTM D1709B
Elmendorf Tear Strength ¹			ASTM D1922
MD	200	g	ASTM D1922
TD	360	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	95.0	°C	ASTM D1525
Melting Temperature (DSC)	101	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	75		ASTM D2457
Haze	4.0	%	ASTM D1003

Extrusion instructions

吹塑薄膜的制造条件
 螺杆尺寸:3.5英寸
 螺杆类型:DSBII
 模具间隙:70密耳
 熔化温度:421华氏度
 产量:12磅/小时/英寸(模具周长)
 模具直径:8英寸
 模膜直径比:2.5:1
 螺杆转速:38 rpm
 霜白线高度:58 英寸

NOTE

1. Method B

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