

ELITE™ 5401P

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE™ 5401P Enhanced Polyethylene Resin is a copolymer produced via INSITE™ Technology from Dow. It offers a unique combination of low seal initiation, moderate stiffness and low blocking for excellent performance on automated packaging equipment.

For food and specialty packaging films

Superior impact resistance and tear properties

Excellent color stability

Complies with:

U.S. FDA FCN 424

EU, No 10/2011

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (2500 ppm)		
	Sliding agent (1000 ppm)		
Agency Ratings	FDA FCN 424		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	1.69	J	Internal method
Film Puncture Force	35.6	N	Internal method
Film Puncture Resistance	9.10	J/cm ³	Internal method
Film strength			ASTM D882
MD	70.3	J/cm ³	ASTM D882
TD	66.2	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	179	MPa	ASTM D882
2% secant, MD	159	MPa	ASTM D882
1% secant, TD	200	MPa	ASTM D882
2% secant, TD	165	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.7	MPa	ASTM D882
TD: Yield	11.0	MPa	ASTM D882

MD: Fracture	33.8	MPa	ASTM D882
TD: Fracture	27.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	400	%	ASTM D882
TD: Fracture	450	%	ASTM D882
Dart Drop Impact	450	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	250	g	ASTM D1922
TD	550	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Melting Temperature (DSC)	123	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	33		ASTM D2457
Haze	22	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:3.5 英寸

螺杆类: DSB II

模具间隙:70 密尔 (1.8 mm)

熔体温度: 410°F

输出:模具周长的 12 磅/小时/英寸

模具直径:8 英寸

放大比:2.5:1

螺杆速度:40 rpm

冷冻线高度:47 in.

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