

ELITE™ 5400G

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE™ 5400G 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 tendencies for good performance on automated packaging equipment.

For food and specialty packaging films

Extremely high impact resistance and good tear properties

Good optical properties

Complies with:

U.S. FDA FCN 424

EU, No 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA FCN 424		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.916	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	6.67	J	Internal method
Film Puncture Force	68.9	N	Internal method
Film Puncture Resistance	32.3	J/cm ³	Internal method
Film strength			ASTM D882
MD	83.6	J/cm ³	ASTM D882
TD	95.1	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	218	MPa	ASTM D882
2% secant, MD	188	MPa	ASTM D882
1% secant, TD	251	MPa	ASTM D882
2% secant, TD	209	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	10.4	MPa	ASTM D882
TD: Yield	10.5	MPa	ASTM D882
MD: Fracture	38.5	MPa	ASTM D882

TD: Fracture	36.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	450	%	ASTM D882
TD: Fracture	630	%	ASTM D882
Dart Drop Impact	470	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD	280	g	ASTM D1922
TD	600	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	104	°C	ASTM D1525
Melting Temperature (DSC)	123	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	32		ASTM D2457
Haze	20	%	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:DSB II
 模具间隙:70 密尔 (1.8 mm)
 熔体温度: 409°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:39 rpm
 冷冻线高度:38 英寸

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