

ELITE™ 5500G

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE* 5500G Enhanced Polyethylene Resin is a copolymer produced via INSITE* Technology. It offers an exceptional combination of processability, low heat seal initiation temperature, package integrity, optical properties, and tear strength.

A high performance sealant for food and specialty packaging films

Outstanding combination of seal performance, caulkability, optics, and tear strength

Easy processability on blown and cast film extrusion equipment

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	0.914	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	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	62.3	N	Internal method
Film Puncture Resistance	29.0	J/cm ³	Internal method
Film strength			ASTM D882
MD	82.7	J/cm ³	ASTM D882
TD	91.0	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	162	MPa	ASTM D882
2% secant, MD	141	MPa	ASTM D882
1% secant, TD	193	MPa	ASTM D882
2% secant, TD	165	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	18.3	MPa	ASTM D882
TD: Yield	10.3	MPa	ASTM D882
MD: Fracture	41.4	MPa	ASTM D882

TD: Fracture	37.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	400	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact	650	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	350	g	ASTM D1922
TD	600	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	45		ASTM D2457
Haze	12	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	226	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D

螺杆类型:DSB II

模具间隙:70 密尔 (1.8 mm)

熔体温度:425°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:42 rpm

冷冻线高度:47 英寸

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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