

ELITE™ 5940G

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE™ 5940G Enhanced Polyethylene Resin is a copolymer produced via INSITE™ Technology from Dow.

Main Characteristics:

MDPE with excellent balance of stiffness and toughness.

Excellent processability.

Complies with

U.S. FDA 21 CFR 177.1520 (c) 3.2a

Canadian HPFB No Objection

Consult the regulations for complete details

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		HPFB (Canada) No Objection	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	1.92	J	
Film Puncture Force	44.5	N	
Film Puncture Resistance	9.51	J/cm ³	Internal method
Film strength			ASTM D882
MD	108	J/cm ³	ASTM D882
TD	124	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	625	MPa	ASTM D882
2% secant, MD	503	MPa	ASTM D882
1% secant, TD	758	MPa	ASTM D882
2% secant, TD	607	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	20.7	MPa	ASTM D882
TD: Yield	24.1	MPa	ASTM D882
MD: Fracture	35.9	MPa	ASTM D882
TD: Fracture	32.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	460	%	ASTM D882
TD: Fracture	640	%	ASTM D882

Dart Drop Impact	120	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD	40	g	ASTM D1922
TD	650	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	122	°C	ASTM D1525
Melting Temperature (DSC)	126	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	20		ASTM D2457
Haze	30	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:
 螺杆尺寸:35英寸
 螺杆类型:DSB II
 模具间隙:70密耳(1.7毫米).
 熔化温度:395华氏度
 产量:10磅/小时/英寸(模具周长)
 模具直径:8英寸

NOTE

1. Method B

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