

ELITE™ NG 5400B

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

ELITE™ NG 5400B is a Linear Low Density Polyethylene, 1-Octene copolymer, produced with the SOLUTION™ technology. This resin presents excellent tensile, tear and puncture resistance even at low temperatures with great gloss and clarity. It has a low seal initiation temperature with high seal performance.

Main Characteristics:

Film for packaging for frozen food

Excellent mechanical properties even at low temperatures

Low seal initiation temperature and high seal properties

Excellent optics

Suitable for food contact: Report # 690/05 issued by INAL according to MERCOSUR.

Consult the regulation to obtain complete details

General Information			
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	38	µm	
Film Puncture Resistance (38 µm)	10.0	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD: 38 µm	134	MPa	ASTM D882
2% secant, TD: 38 µm	143	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm	10.0	MPa	ASTM D882
TD: Yield, 38 µm	10.0	MPa	ASTM D882
MD: Fracture, 38 µm	40.0	MPa	ASTM D882
TD: Fracture, 38 µm	36.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	750	%	ASTM D882
TD: Fracture, 38 µm	930	%	ASTM D882
Dart Drop Impact (38 µm)	1400	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	700	g	ASTM D1922
TD : 38 µm	910	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 37.5 µm)	64		ASTM D2457
Haze (37.5 µm)	9.0	%	ASTM D1003

Extrusion	Nominal Value	Unit
Melt Temperature	232	°C
Extrusion instructions		

吹塑薄膜的加工条件:

螺杆直径:63.5 mm(2.5 英寸);24.5 L/D

模具间隙:1.8 mm(70 密尔)

熔体温度: 232°C (450°F)

输出:52 kg/h(113 磅/小时)

模具直径:152 mm(6 英寸)

放大比:2.5:1

螺杆速度:83 rpm

冷冻线高度:635 mm(25 英寸)

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