

# ELITE™ 5230GC

Enhanced Polyethylene Resin

The Dow Chemical Company

## Message:

ELITE™ 5230GC Enhanced Polyethylene Resin is produced via INSITE™ Technology from Dow. Film made from this resin offers high impact strength and good puncture resistance at moderate stretch levels for irregularly shaped loads. In addition, this resin provides excellent extensibility for higher yields on regular loads.

Main Characteristics:

Excellent extensibility

High impact and puncture resistance

Complies with:

U.S. FDA FCN 424

Canadian HPFB No Objection

EU, No 10/2011

Consult the regulations for complete details

General Information			
Agency Ratings	FDA FCN 424		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.916	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Film Puncture Force (20 µm)	48.9	N	Internal method
Film Puncture Resistance <sup>1</sup> (20 µm)	27.0	J/cm <sup>3</sup>	Internal method
Tensile Strength			ASTM D882
MD: Yield, 20 µm	9.07	MPa	ASTM D882
TD: Yield, 20 µm	8.39	MPa	ASTM D882
MD: Break, 20 µm	46.0	MPa	ASTM D882
TD: Break, 20 µm	38.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 µm	540	%	ASTM D882
TD: Break, 20 µm	720	%	ASTM D882
Dart Drop Impact (20 µm)	320	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD : 20 µm	310	g	ASTM D1922
TD : 20 µm	510	g	ASTM D1922
Final stretch-On-Pallet testing (20.0 µm)	330	%	Internal method
Thermal	Nominal Value	Unit	Test Method

Melting Temperature (DSC)	122	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 µm)	95		ASTM D2457
Haze (20.0 µm)	0.50	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	271	°C	
Extrusion instructions			
Fabrication Conditions For Cast Film: Die gap: 20 mil (0.50mm) Melt Temperature: 520 °F (271 °C) Air Gap: 3 in. (7.6 cm) Haul Off Speed: 600 fpm (183 m/min)			
NOTE			

1. 250% pre-stretch; On-Pallet testing

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#### Recommended distributors for this material

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