

# ELITE™ 5230G

## The Dow Chemical Company - Enhanced Polyethylene Resin

Tuesday, November 5, 2019

## **General Information**

### **Product Description**

ELITE™ 5230G Enhanced Polyethylene Resin is produced via INSITE™ Technology from Dow. 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.

- · 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				
Material Status	Commercial: Active			
Availability	<ul><li>Asia Pacific</li><li>Europe</li></ul>	<ul><li>Latin America</li><li>North America</li></ul>		
Additive	Antiblock: No	<ul> <li>Processing Aid: No</li> </ul>	Slip: No	
Agency Ratings	• EU No 10/2011	• FDA FCN 424	<ul> <li>HPFB (Canada) No Objection</li> </ul>	
Forms	<ul> <li>Pellets</li> </ul>			
Processing Method	Cast Film	Injection Molding		

ASTM & ISO Properties <sup>1</sup>				
Physical	Nominal Value	Unit	Test Method	
Density / Specific Gravity	0.918		ASTM D792	
Melt Mass-Flow Rate (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238	
Films	Nominal Value	Unit	Test Method	
Film Thickness - Tested	1	mil		
Film Puncture Force <sup>2</sup> (0.80 mil)	11.0	lbf	Internal Method	
Film Puncture Resistance (0.80 mil)	326	ft·lb/in³	Internal Method	
Tensile Strength - MD (Yield, 0.80 mil)	1320	psi	ASTM D882	
Tensile Strength - TD (Yield, 0.80 mil)	1220	psi	ASTM D882	
Tensile Strength - MD (Break, 0.80 mil)	6670	psi	ASTM D882	
Tensile Strength - TD (Break, 0.80 mil)	5520	psi	ASTM D882	
Tensile Elongation - MD (Break, 0.80 mil)	540	%	ASTM D882	
Tensile Elongation - TD (Break, 0.80 mil)	720	%	ASTM D882	
Dart Drop Impact (0.80 mil)	320	g	ASTM D1709B	
Elmendorf Tear Strength - MD (0.80 mil)	310	g	ASTM D1922	
Elmendorf Tear Strength - TD (0.80 mil)	510	g	ASTM D1922	
Ultimate Stretch <sup>3</sup> (0.8 mil)	330	%	Internal Method	
Thermal	Nominal Value	Unit	Test Method	
Melting Temperature (DSC)	252	°F	Internal Method	
Optical	Nominal Value	Unit	Test Method	
Gloss (45°, 0.800 mil)	95		ASTM D2457	

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Optical	Nominal Value	Unit	Test Method
Haze (0.800 mil)	0.500	%	ASTM D1003
Processing Information			

Extrusion	Nominal Value Unit
Melt Temperature	520 °F

## **Extrusion Notes**

Fabrication Conditions For Cast Film:

- Die Gap: 20 mil (0.50 mm)
- Melt Temperature: 520°F (271°C)
- Air Gap: 3 in. (7.6cm)
- Haul Off Speed: 600 fpm (183 m/min)

#### **Notes**

- <sup>1</sup> Typical properties: these are not to be construed as specifications.
- <sup>2</sup> 250% pre-stretch; On-Pallet testing.
- <sup>3</sup> On-Pallet testing

