

## Dow ELITE™ 5230G Enhanced Polyethylene Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE

### Material Notes:

ELITE™ 5230G is produced via INSITE™ Technology from Dow Plastics. It offers high impact strength and good puncture resistance at moderate stretch levels for irregularly shaped loads. In addition, this resin provides excellent extensibility for high yields on regular loads.

ELLITE™ 5230G resin complies with U.S. FDA regulation 21 CFR 177.1520 (c) 3.2a. Information provided by Dow

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-ELITE-5230G-Enhanced-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_Dow-ELITE-5230G-Enhanced-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.916 g/cc	0.0331 lb/in <sup>3</sup>	ASTM D792
Thickness	20.3 microns	0.800 mil	
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.549 MPa	1385 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.55 MPa	1240 psi	ASTM D882
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	630 %	630 %	ASTM D882
Elongation at Break	330 %	330 %	on-pallet testing: Ultimate Stretch; Dow Method
Impact	9.0	9.0	[lb<sub>f</sub>]; Puncture Resistance Force; Dow Method
	47	47	[N]; Puncture at 250% pre-stretch; on-pallet testing; Dow Method
Puncture Energy	3.73 J	2.75 ft-lb	Dow Method
Elmendorf Tear Strength MD	360 g	360 g	ASTM D1922
Elmendorf Tear Strength TD	520 g	520 g	ASTM D1922
Elmendorf Tear Strength, MD	17.7 g/micron	450 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	25.6 g/micron	650 g/mil	ASTM D1922
Dart Drop Test	630 g	1.39 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	40.7 MPa	5900 psi	ASTM D882
Film Tensile Strength at Break, TD	35.9 MPa	5200 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	Dow Method (DSC)

Optical Properties	Metric	English	Comments
Haze	0.50 %	0.50 %	ASTM D1003
Gloss	95 %	95 %	45°; ASTM D2457

## Contact Songhan Plastic Technology Co.,Ltd.

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