

## Dow ELITE™ 5220G Enhanced Polyethylene Resin

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

### Material Notes:

High impact and puncture resistance Excellent on-pallet load elongation for higher yields on regular loads Complies with U.S. FDA 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-5220G-Enhanced-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_Dow-ELITE-5220G-Enhanced-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.915 g/cc	0.0331 lb/in <sup>3</sup>	ASTM D792
Thickness	20.3 microns	0.800 mil	
Melt Flow	3.5 g/10 min	3.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	8.96 MPa	1300 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.41 MPa	1220 psi	ASTM D882
Film Elongation at Break, MD	450 %	450 %	ASTM D882
Film Elongation at Break, TD	650 %	650 %	ASTM D882
Elongation at Break	300 %	300 %	on-pallet testing determined by LANTECH SHS Tester: Ultimate Stretch; Dow Method
Impact	10	10	[lb<sub>f</sub>]; Puncture Resistance Force; Dow Method
	49	49	[N]; Puncture at 250% pre-stretch; on-pallet testing determined by LANTECH SHS Tester; Dow Method
	323	323	[ft-lbf/in<sup>3</sup>]; Puncture Resistance; Dow Method
Puncture Energy	4.07 J	3.00 ft-lb	Dow Method
Elmendorf Tear Strength MD	390 g	390 g	ASTM D1922
Elmendorf Tear Strength TD	600 g	600 g	ASTM D1922
Elmendorf Tear Strength, MD	19.19 g/micron	487.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	29.5 g/micron	750 g/mil	ASTM D1922
Dart Drop Test	630 g	1.39 lb	Method B; ASTM D1709
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	36.9 MPa	5300 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	123 °C	253 °F	Dow Method (DSC)
Vicat Softening Point	99.0 °C	210 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	0.60 %	0.60 %	ASTM D1003
Gloss	96 %	96 %	45°; ASTM D2457

## Contact Songhan Plastic Technology Co.,Ltd.

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