

## Dow Elite® 5100 Linear Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

### Material Notes:

ELITE® 5100 enhanced polyethylene resin is a copolymer produced via INSITE® Technology from Dow Plastics. It offers extremely high impact resistance, combined with excellent tear, tensile, and puncture properties for thick and thin gauge industrial and consumer blown film applications. ELITE 5100 resin exhibits a broader range and higher hot tack strengths than LLDPE, making it ideal for automated packaging applications. It complies with U.S. FDA regulation 21 CFR 177.1520 c 3.2 (a) when used unmodified and processed according to good manufacturing practices. For food contact compliance statements, your nearest Dow office should be contacted. Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-Elite-5100-Linear-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_Dow-Elite-5100-Linear-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	
Melt Flow	0.85 g/10 min @Load 2.16 kg	0.85 g/10 min @Load 4.76 lb	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.4 MPa	1650 psi	
Film Tensile Strength at Yield, TD	11.5 MPa	1670 psi	
Film Elongation at Break, MD	645 %	645 %	
Film Elongation at Break, TD	655 %	655 %	
Secant Modulus, MD	0.200 GPa	29.0 ksi	Film value
Secant Modulus, TD	0.217 GPa	31.5 ksi	Film value
Elmendorf Tear Strength MD	907 g	907 g	Unspecified film thickness
Elmendorf Tear Strength TD	1110 g	1110 g	Unspecified film thickness
Dart Drop Test	>= 830 g	>= 1.83 lb	
Film Tensile Strength at Break, MD	56.3 MPa	8170 psi	
Film Tensile Strength at Break, TD	44.2 MPa	6410 psi	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	107 °C	225 °F	

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	

Processing Properties	Metric	English	Comments
Processing Temperature	101 °C	214 °F	Seal Initiation temperature

## Contact Songhan Plastic Technology Co.,Ltd.

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