

## Dow LDPE 640I Low Density Polyethylene, Liner Film Grade

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

### Material Notes:

DOW LDPE 640I resin is a barefoot general purpose liner film resin for thin gauge applications requiring good drawdown and excellent toughness. This material complies with U.S.FDA regulation 21 CFR 177.1520(c) 2.1 for food contact applications. The regulation should be consulted for complete details.Film properties below based on a film thickness of 30 µm. Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-LDPE-640I-Low-Density-Polyethylene-Liner-Film-Grade.php](http://www.lookpolymers.com/polymer_Dow-LDPE-640I-Low-Density-Polyethylene-Liner-Film-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in <sup>3</sup>	
Thickness	30.0 microns	1.18 mil	
Melt Flow	2.0 g/10 min	2.0 g/10 min	
	@Load 2.16 kg	@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	10.3 MPa	1490 psi	
Film Elongation at Break, MD	395 %	395 %	
Film Elongation at Break, TD	530 %	530 %	
Coefficient of Friction	0.70	0.70	
Elmendorf Tear Strength MD	410 g	410 g	
Elmendorf Tear Strength TD	250 g	250 g	
Elmendorf Tear Strength, MD	13.7 g/micron	348 g/mil	
Elmendorf Tear Strength, TD	8.30 g/micron	211 g/mil	
Dart Drop	3.20 g/micron	81.3 g/mil	
Film Tensile Strength at Break, MD	29.6 MPa	4290 psi	
Film Tensile Strength at Break, TD	17.9 MPa	2600 psi	

Optical Properties	Metric	English	Comments
Haze	7.5 %	7.5 %	
Gloss	63 %	63 %	45°

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	191 °C	376 °F	Film extrusion temperature

## Contact Songhan Plastic Technology Co.,Ltd.

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