

## Huntsman PE1037 Film Extrusion Polyethylene (discontinued \*\*)

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

### Material Notes:

Homopolymer, and FDA compliant. Features: Medium clarity packaging film and good draw down characteristics. Applications: Film extrusion: general purpose packaging and film applications. FDA Notes: Conforms to FDA regulation 21 CFR 177.1520 (c)2.2 under condition of use B through H described in Table 2 of 21 CFR 176.170 Film properties based on 1.0 guage (25 µm) thickness; blow-up ratio 2:1. Information provided by Huntsman Corporation

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Huntsman-PE1037-Film-Extrusion-Polyethylene-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Huntsman-PE1037-Film-Extrusion-Polyethylene-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in <sup>3</sup>	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	1.6 g/10 min	1.6 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength, Ultimate	12.0 MPa	1740 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Film Elongation at Break, MD	380 %	380 %	ASTM D882
Film Elongation at Break, TD	510 %	510 %	ASTM D882
Elongation at Break	400 %	400 %	ASTM D638
Modulus of Elasticity	0.262 GPa	38.0 ksi	Secant; ASTM D638
Secant Modulus, MD	0.193 GPa	28.0 ksi	ASTM D882
Secant Modulus, TD	0.242 GPa	35.1 ksi	ASTM D882
Dart Drop	1.97 g/micron	50.0 g/mil	ASTM D1709
Dart Drop Test	50.0 g	0.110 lb	ASTM D1709
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	97.0 °C	207 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	6.5 %	6.5 %	ASTM D1003
Gloss	63 - 69 %	63 - 69 %	at 45°; ASTM D523

  

Processing Properties	Metric	English	Comments
Melt Temperature	171 - 182 °C	340 - 360 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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