

Huntsman PE1080 Film Extrusion Polyethylene (discontinued **)

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

Material Notes:

Homopolymer and FDA compliant. Features: Yields film with high clarity and excellent stiffness. Applications: Film extrusion: overwrapFDA 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-PE1080-Film-Extrusion-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ASTM D2240
Tensile Strength, Ultimate	12.0 MPa	1740 psi	ASTM D638
Tensile Strength, Yield	14.0 MPa	2030 psi	ASTM D638
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	300 %	300 %	ASTM D882
Elongation at Break	600 %	600 %	ASTM D638
Modulus of Elasticity	0.442 GPa	64.1 ksi	Secant; ASTM D638
Secant Modulus, MD	0.366 GPa	53.1 ksi	ASTM D882
Secant Modulus, TD	0.414 GPa	60.0 ksi	ASTM D882
Dart Drop	2.56 g/micron	65.0 g/mil	ASTM D1709
Dart Drop Test	65.0 g	0.143 lb	ASTM D1709
Film Tensile Strength at Break, MD	19.0 MPa	2760 psi	ASTM D882
Film Tensile Strength at Break, TD	17.0 MPa	2470 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	103 °C	217 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	6.5 %	6.5 %	ASTM D1003
Gloss	55 %	55 %	at 45°; ASTM D523

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

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