

Huntsman PE 1011 Film Extrusion Polyethylene (discontinued **)

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

Material Notes:

Homopolymer, Drug Master File listed product, and FDA compliant. Features: Good impact strength, good machinability, heat seal and foaming characteristics. Applications: Film Extrusion: industrial liner/extrusion grade, drum liners, hardware packaging, automotive, and tubing. 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-PE-1011-Film-Extrusion-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength, Ultimate	15.0 MPa	2180 psi	ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D638
Film Elongation at Break, MD	325 %	325 %	ASTM D882
Film Elongation at Break, TD	425 %	425 %	ASTM D882
Elongation at Break	500 %	500 %	ASTM D638
Modulus of Elasticity	0.221 GPa	32.1 ksi	Secant; ASTM D638
Secant Modulus, MD	0.173 GPa	25.1 ksi	ASTM D882
Secant Modulus, TD	0.221 GPa	32.1 ksi	ASTM D882
Dart Drop	3.54 - 4.13 g/micron	90.0 - 105 g/mil	ASTM D1709
Dart Drop Test	90.0 - 105 g	0.198 - 0.232 lb	ASTM D1709
Film Tensile Strength at Break, TD	17.0 MPa	2470 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	91.0 °C	196 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Gloss	50 %	50 %	at 45°; ASTM D523

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

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