

Huntsman PE1058 Film Extrusion Polyethylene (discontinued **)

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

Material Notes:

Homopolymer and FDA compliant. Features: Exceptional draw down and processability, excellent strength, good heat sealability, and optics. Applications: Film extrusion: all thin film uses and especially garment bags. 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-PE1058-Film-Extrusion-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	5.5 g/10 min	5.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ASTM D2240
Tensile Strength, Ultimate	10.0 MPa	1450 psi	ASTM D638
Tensile Strength, Yield	10.0 MPa	1450 psi	ASTM D638
Film Elongation at Break, MD	275 %	275 %	ASTM D882
Film Elongation at Break, TD	400 %	400 %	ASTM D882
Elongation at Break	400 %	400 %	ASTM D638
Modulus of Elasticity	0.242 GPa	35.1 ksi	Secant; ASTM D638
Secant Modulus, MD	0.173 GPa	25.1 ksi	ASTM D882
Secant Modulus, TD	0.207 GPa	30.0 ksi	ASTM D882
Dart Drop	1.77 g/micron	45.0 g/mil	ASTM D1709
Dart Drop Test	45.0 g	0.0992 lb	ASTM D1709
Film Tensile Strength at Break, MD	17.0 MPa	2470 psi	ASTM D882
Film Tensile Strength at Break, TD	14.0 MPa	2030 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D1003
Gloss	65 %	65 %	at 45°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	143 - 154 °C	289 - 309 °F	

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