

Huntsman PE1059 Film Extrusion Polyethylene (discontinued **)

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

Material Notes:

Homopolymer and FDA compliant. Features: Excellent draw down and good processability. Applications: Film extrusion: non-abrasive packaging 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-PE1059-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	6.5 g/10 min	6.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength, Ultimate	11.0 MPa	1600 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	ASTM D638
Film Elongation at Break, MD	320 %	320 %	ASTM D882
Film Elongation at Break, TD	380 %	380 %	ASTM D882
Elongation at Break	400 %	400 %	ASTM D638
Modulus of Elasticity	0.297 GPa	43.1 ksi	Secant; ASTM D638
Secant Modulus, MD	0.204 GPa	29.6 ksi	ASTM D882
Secant Modulus, TD	0.255 GPa	37.0 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	20.0 MPa	2900 psi	ASTM D882
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Gloss	42 %	42 %	at 45°; ASTM D523

Processing Properties	Metric	English	Comments
Melt Temperature	160 - 171 °C	320 - 340 °F	

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