

Huntsman PE1023 Film Extrusion Polyethylene (discontinued **)

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

Material Notes:

Homopolymer, and FDA compliant. Features: Good draw down characteristics. Applications: Film extrusion: drum liners, hardware packaging, and refuse 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-PE1023-Film-Extrusion-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	25.4 microns	1.00 mil	
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ASTM D2240
Tensile Strength, Ultimate	10.0 MPa	1450 psi	ASTM D638
Tensile Strength, Yield	9.00 MPa	1310 psi	ASTM D638
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Elongation at Break	500 %	500 %	ASTM D638
Modulus of Elasticity	0.221 GPa	32.1 ksi	Secant; ASTM D638
Secant Modulus, MD	0.166 GPa	24.1 ksi	ASTM D882
Secant Modulus, TD	0.173 GPa	25.1 ksi	ASTM D882
Dart Drop	3.15 g/micron	80.0 g/mil	ASTM D1709
Dart Drop Test	80.0 g	0.176 lb	ASTM D1709
Film Tensile Strength at Break, MD	20.0 MPa	2900 psi	ASTM D882
Film Tensile Strength at Break, TD	16.0 MPa	2320 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	63 %	63 %	at 45°; ASTM D523

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

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