

Huntsman PE 1017 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, furniture covers, 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 gauge (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-1017-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 | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------------------|------------------|-------------------|
| Hardness, Shore D | 50 | 50 | ASTM D2240 |
| Tensile Strength, Ultimate | 11.0 MPa | 1600 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 | 0.166 GPa | 24.1 ksi | ASTM D882 |
| Secant Modulus, TD | 0.173 GPa | 25.1 ksi | ASTM D882 |
| Dart Drop | 3.35 - 3.94 g/micron | 85.0 - 100 g/mil | ASTM D1709 |
| Dart Drop Test | 85.0 - 100 g | 0.187 - 0.221 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 | 94.0 °C | 201 °F | ASTM D1525 |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|-------------------|
| Optical Properties | Metric | English | Comments |
| Gloss | 55 % | 55 % | at 45°; ASTM D523 |

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

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