

Dow DOWLEX™ 2070G Linear Low Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE

Material Notes:

High strength in food packaging applications Good processability at narrow die gaps Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a

Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DOWLEX-2070G-Linear-Low-Density-Polyethylene.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------|----------------------------|------------|
| Density | 0.9215 g/cc | 0.03329 lb/in ³ | ASTM D792 |
| Thickness | 50.8 microns | 2.00 mil | |
| Melt Flow | 1.0 g/10 min | 1.0 g/10 min | ASTM D1238 |
| Antiblock Level | 2500 ppm | 2500 ppm | |
| Slip Level | 1000 ppm | 1000 ppm | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------------|-------------|--|
| Film Tensile Strength at Yield, MD | 10.45 MPa | 1516 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 11.62 MPa | 1686 psi | ASTM D882 |
| Film Elongation at Break, MD | 623 % | 623 % | ASTM D882 |
| Film Elongation at Break, TD | 683 % | 683 % | ASTM D882 |
| Secant Modulus, MD | 0.1924 GPa | 27.90 ksi | 2% Secant; ASTM D882 |
| Secant Modulus, TD | 0.2282 GPa | 33.10 ksi | 2% Secant; ASTM D882 |
| Impact | 70 | 70 | [ft-lbf/in ³]; Puncture Resistance; Dow Method |
| | 1173 | 1173 | [ft-lbf/in ³]; Toughness TD; ASTM D882 |
| | 1196 | 1196 | [ft-lbf/in ³]; Toughness MD; ASTM D882 |
| Elmendorf Tear Strength MD | 811 g | 811 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 1230 g | 1230 g | ASTM D1922 |
| Elmendorf Tear Strength, MD | 15.96 g/micron | 405.5 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 24.2 g/micron | 615 g/mil | ASTM D1922 |
| Dart Drop Test | 311 g | 0.686 lb | Method A; ASTM D1709 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------|----------|-----------|
| Film Tensile Strength at Break, MD | 35.8 MPa | 5180 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 29.12 MPa | 4223 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|--------|---------|------------------|
| Melting Point | 123 °C | 253 °F | Dow Method (DSC) |
| Vicat Softening Point | 104 °C | 219 °F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------------|
| Haze | 12 % | 12 % | ASTM D1003 |
| Gloss | 64.9 % | 64.9 % | 45°; ASTM D2457 |

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