

DuPont Teijin Films Melinex® 377 Polyester Film, 142 Gauge

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

Melinex® 377 is a translucent matte film having a medium surface gloss which is suitable for creating woodgrain and muted metallic effects. Typical Applications: Melinex® is suitable for use in stamping foil, metallizing, and casting/release applications. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-377-Polyester-Film-142-Gauge.php

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------------------------|-------------------------------|---|
| Film Tensile Strength at Yield, MD | 100 MPa @Strain >=5.00 % | 14500 psi @Strain >=5.00 % | ASTM D882A |
| Film Tensile Strength at Yield, TD | 103 MPa @Strain >=5.00 % | 15000 psi @Strain >=5.00 % | ASTM D882A |
| Film Elongation at Break, TD | 100 % | 100 % | 50% RH; Strain rate 50%/min; ASTM D882-83 |
| Coefficient of Friction, Dynamic | 0.30 | 0.30 | A-B; ASTM D1894 |
| Film Tensile Strength at Break, MD | 172 MPa | 24900 psi | 50% RH; Strain rate 50%/min; ASTM D882A |
| Film Tensile Strength at Break, TD | 211 MPa | 30600 psi | 50% RH; Strain rate 50%/min; ASTM D882A |

| Thermal Properties | Metric | English | Comments |
|--------------------|--|--|--------------|
| CTE, linear | 16.0 µm/m-°C @Temperature 20.0 - 50.0 °C | 8.89 µin/in-°F @Temperature 68.0 - 122 °F | TD |
| | 19.0 µm/m-°C @Temperature 20.0 - 50.0 °C | 10.6 µin/in-°F @Temperature 68.0 - 122 °F | MD |
| Shrinkage, MD | 3.0 % @Temperature 190 °C, Time 300 sec | 3.0 % @Temperature 374 °F, Time 0.0833 hour | Unrestrained |
| | 0.00 % @Temperature 190 °C, Time 300 sec | 0.00 % @Temperature 374 °F, Time 0.0833 hour | Unrestrained |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|--------------------|--------|---------|----------|

| Haze Optical Properties | 76 % Metric | 76 % English | ASTM D1003 Comments |
|-----------------------------------|-----------------------|------------------------|-------------------------------|
| Gloss | 92 % | 92 % | 45°; ASTM D523 |
| | 92 % | 92 % | 60°; ASTM D523 |
| Transmission, Visible | 76 % | 76 % | TLT; ASTM D1003 |

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