



MELINEX® 377

Product Description

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® 377 is suitable for use in stamping foil, metallizing, and casting/release applications.

Typical Properties

| Available Thickness [Gauge] |
|--------------------------------|
| 48; 75; 92; 142; 200; 300; 500 |

| Property | Thickness | Value | Units | Test |
|--------------------------------|-----------|--------|-------|--|
| OPTICAL | | | | |
| Gloss 45 Degrees | 92 | 38 | % | ASTM D523 |
| Haze | 48 | 51 | % | ASTM D1003 |
| Haze | 75 | 66 | % | ASTM D1003 |
| Haze | 92 | 73 | % | ASTM D1003 |
| Haze | 142 | 78 | % | ASTM D1003 |
| Haze | 200 | 95 | % | ASTM D1003 |
| Haze | 300-500 | 97 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 48 | 80 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 75 | 79 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 92 | 78 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 142 | 76 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 200 | 70 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 300-500 | 67 | % | ASTM D1003 |
| PHYSICAL | | | | |
| C.O.F. (dynamic) | | 0.30 | | ASTM D1894 (A-B) |
| Elongation at Break TD | | 100 | % | ASTM D882-83 (23°C at 50% RH, strain rate 50% min) |
| Tensile Strength MD (break) | | 24,900 | psi | ASTM D882-83 (23°C at 50% RH, strain rate 50% min) |
| Tensile Strength TD (break) | | 30,600 | psi | ASTM D882-83 (23°C at 50% RH, |

| | | | | |
|---------------------------------------|---------|----------|----------|----------------------------|
| | | | | strain rate 50% min) |
| Yield Strength MD 5% | | 14,500 | psi | ASTM D882A |
| Yield Strength TD 5% | | 15,000 | psi | ASTM D882A |
| THERMAL | | | | |
| Coefficient of Thermal Expansion - MD | | 19X10E-6 | cm/cm/°C | Between 20-50°C |
| Coefficient of Thermal Expansion - TD | | 16X10E-6 | cm/cm/°C | Between 20-50°C |
| Shrinkage MD (190°C) | 48 | 3.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage MD (190°C) | 75-142 | 3.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage MD (190°C) | 200-500 | 3.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage TD (190°C) | 48 | 3.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage TD (190°C) | 75-142 | 0.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage TD (190°C) | 200-500 | 3.0 | % | Unrestrained @ 190°C/5 min |
| Upper Melt Temperature | | 491-500 | °F | ASTM E794-85 |

Contact Info

DuPont Teijin Films U.S. Limited Partnership
 3600 Discovery Drive
 Chester, VA 23836 USA
 Tel: (800) 635-4639
 Fax: (804) 530-9867

Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body ([DuPont Teijin Films Medical Policy](#)). For other medical applications, see the [Medical Caution Statement](#). DuPont Teijin Films accepts no liability for use of it's products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

Melinex®, Mylar® and Melinex® ST™ are registered trademarks of DuPont Teijin Films U.S. Limited Partnership.