



1-800-773-0062
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DuPont Teijin Films™

MELINEX® 329

Product Description

Melinex® 329 is an opaque white, non-pretreated, polyester film with superb handling properties and a unique glossy appearance.

Typical Applications

Melinex® 329 is used as a base for pressure sensitive labels, in security and access cards, in multiple use tickets and in general printing applications. It is also used for medical diagnostic test strips.

Approvals

UL recognized - Product has been registered with Underwriters Laboratories

Typical Properties

| |
|---|
| Available Thickness [Gauge] |
| 75; 92; 142; 200; 300; 380; 500; 700; 820; 1000; 1400 |

| Property | Thickness | Value | Units | Test |
|---------------------|-----------|-------------------|------------|--|
| ELECTRICAL | | | | |
| Dielectric Strength | 92 | 4,600 | volts | ASTM D149 1/4" electrode 500 V/sec 25°C in air |
| Dielectric Strength | 200 | 8,800 | volts | ASTM D149 |
| Dielectric Strength | 300 | 10,200 | volts | ASTM D149 |
| Dielectric Strength | 500 | 13,500 | volts | ASTM D149 |
| Dielectric Strength | 700 | 16,400 | volts | ASTM D149 |
| Surface Resistivity | 200 | >10 ¹⁴ | Ohm/square | ASTM D257-83 (500 V DC at 20°C and 95% rh) |

| OPTICAL | | | | |
|--------------------------------|------------|-----------|---------------------|----------------------------|
| Gloss 45 Degrees | 75 - 1400 | 40 | % | ASTM D1003 |
| Gloss 60 Degrees | 75 - 1400 | 45 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 92 | 23 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 200 | 16 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 300 | 9 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 500 | 6 | % | ASTM D1003 |
| Total Light Transmission (TLT) | 700 | 3 | % | ASTM D1003 |
| Whiteness | 200 | 100 | % | ASTM E 313-79 |
| Whiteness | 300 | 100 | % | ASTM E 313-79 |
| PHYSICAL | | | | |
| C.O.F. (dynamic) A-B | 75 - 1400 | 0.3 - 0.4 | | ASTM D1894 |
| Density | 75 - 142 | 1.40 | g/cm ³ | |
| Density | 200 - 300 | 1.43 | g/cc | ASTM D1505 |
| Density | 380 - 700 | 1.48 | g/cc | ASTM D1505 |
| Density | 820 - 1400 | 1.51 | g/cm ³ | ASTM D1505 |
| Elongation at Break MD | 75 - 1400 | 115 | % | ASTM D882A |
| Elongation at Break TD | 75 - 1400 | 90 | % | ASTM D882A |
| Tensile Strength MD | 75 - 1400 | 22,000 | psi | ASTM D882A |
| Tensile Strength TD | 75 - 1400 | 23,000 | psi | ASTM D882A |
| Yield (nominal) | 75 | 26,448 | in ² /lb | |
| Yield (nominal) | 92 | 21,798 | in ² /lb | |
| Yield (nominal) | 142 | 13,969 | in ² /lb | |
| Yield (nominal) | 200 | 9,825 | in ² /lb | |
| Yield (nominal) | 300 | 6,562 | in ² /lb | |
| Yield (nominal) | 380 | 4,922 | in ² /lb | |
| Yield (nominal) | 500 | 3,801 | in ² /lb | |
| Yield (nominal) | 700 | 2,711 | in ² /lb | |
| Yield (nominal) | 820 | 2,235 | in ² /lb | |
| Yield (nominal) | 1000 | 1,833 | in ² /lb | |
| Yield (nominal) | 1400 | 1,328 | in ² /lb | |
| Yield Strength MD | 75 - 1400 | 12,000 | psi | ASTM D882A |
| Yield Strength TD | 75 - 1400 | 12,000 | psi | ASTM D882A |
| THERMAL | | | | |
| Shrinkage MD (190°C) | 92 | 3.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage MD (190°C) | 142 - 200 | 2.8 | % | Unrestrained @ 190°C/5 min |
| Shrinkage MD (190°C) | 300 - 1400 | 1.5 | % | Unrestrained @ 190°C/5 min |
| Shrinkage TD (190°C) | 92 | 2.5 | % | Unrestrained @ 190°C/5 min |
| Shrinkage TD (190°C) | 142 - 200 | 1.0 | % | Unrestrained @ 190°C/5 min |
| Shrinkage TD (190°C) | 300 - 1400 | 1.5 | % | Unrestrained @ 190°C/5 min |

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.

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