

DuPont Teijin Films Melinex® 516D Polyester Film

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

Material Notes:

A high clarity film which is two side pretreated for slip to combine good handling properties with high clarity and brilliance. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-516D-Polyester-Film.php

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------|-----------|-----------------|
| Film Tensile Strength at Yield, MD | 96.5 MPa | 14000 psi | ASTM D882A |
| Film Tensile Strength at Yield, TD | 100 MPa | 14500 psi | ASTM D882A |
| Film Elongation at Break, MD | 180 % | 180 % | ASTM D882A |
| Film Elongation at Break, TD | 120 % | 120 % | ASTM D882A |
| Coefficient of Friction, Dynamic | 0.45 | 0.45 | A-B; ASTM D1894 |
| Film Tensile Strength at Break, MD | 193 MPa | 28000 psi | ASTM D882A |
| Film Tensile Strength at Break, TD | 241 MPa | 35000 psi | ASTM D882A |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------------------------------------|--|--------------|
| Shrinkage, MD | 2.5 % | 2.5 % | Unrestrained |
| | @Temperature 190 °C, Time 300 sec | @Temperature 374 °F, Time 0.0833 hour | |
| Shrinkage, TD | 0.40 % | 0.40 % | Unrestrained |
| | @Temperature 190 °C, Time 300 sec | @Temperature 374 °F, Time 0.0833 hour | |

| Optical Properties | Metric | English | Comments |
|-----------------------|----------------------|-----------------------|-----------------|
| Transmission, Visible | 88.2 % | 88.2 % | TLT; ASTM D1003 |
| | @Thickness 0.163 mm | @Thickness 0.00640 in | |
| | 88.3 % | 88.3 % | |
| | @Thickness 0.0940 mm | @Thickness 0.00370 in | TLT; ASTM D1003 |
| | 88.3 % | 88.3 % | TLT; ASTM D1003 |
| | @Thickness 0.112 mm | @Thickness 0.00440 in | |

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