

DuPont Teijin Films Melinex® 454 Polyester Film, 92 Gauge

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

Material Notes:

Melinex® 454 is an excellent handling, high clarity film with both sides pre-treated to promote adhesion to most printing inks and Industrial coatings. Typical Applications: Melinex® 454 is used as a base for pressure sensitive labels, general industrial coatings and applied window films. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Melinex-454-Polyester-Film-92-Gauge.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 | 96.5 MPa | 14000 psi | ASTM D882A |
| Film Elongation at Break, MD | 150 % | 150 % | ASTM D882A |
| Film Elongation at Break, TD | 100 % | 100 % | ASTM D882A |
| Coefficient of Friction, Dynamic | 0.40 | 0.40 | ASTM D1894 |
| Film Tensile Strength at Break, MD | 193 MPa | 28000 psi | ASTM D882A |
| Film Tensile Strength at Break, TD | 248 MPa | 36000 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 | 1.0 % | 1.0 % | Unrestrained |
| | @Temperature 190 °C, Time 300 sec | @Temperature 374 °F, Time 0.0833 hour | |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|-----------------|
| Haze | 0.30 % | 0.30 % | ASTM D1003 |
| Transmission, Visible | 88.8 % | 88.8 % | TLT; ASTM D1003 |

| Descriptive Properties | Value | Comments |
|------------------------|---------------------------|----------|
| Yield (nominal) | 21800 in ² /lb | |

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