



®

ZHONGDA

Polyolefin Shrink Film

ZDF01

ZDF01 is a high clarity, durable, cost effective alternative to crosslinked shrink films. This film has the versatility to wrap a wide variety of products.

Leading with technology...

Leading with value...

Zhongda ZDF01

Multi-Layer Shrink Film

- ◇ Excellent sparkle and clarity for retail packaging
- ◇ Creates strong durable seals with impulse heated nichrome wire and single piece hot knife seal systems
- ◇ Film seals and separates quickly
- ◇ High tensile strength and puncture resistance for added toughness
- ◇ Excellent machinability on semi-automatic and automatic shrink wrapping equipment
- ◇ High percentage balanced shrink for attractive finished shrink appearance
- ◇ Corrosion free sealing with no fumes or wire build up
- ◇ Will not embrittle with age or cold temperatures
- ◇ Complies with FDA and USDA regulations governing direct contact food packaging
- ◇ Manufacturing processes are ISO 9001 and ISO 22000 certified

| TEST ITEM | UNIT | ASTM Test | TYPICAL VALUES | | | | |
|---|------------------------|-----------|--------------------|-----------|---------------------|-----------|--------|
| | | | 50 | 60 | 75 | 100 | 125 |
| Gauge | | | 50 | 60 | 75 | 100 | 125 |
| ROLL LENGTH | | | | | | | |
| CF | | | 5,250' | 4,375' | 3,500' | 2,625' | 2,100' |
| SW | | | 10,500' | 8,750' | 7,000' | 5,250' | 4,200' |
| TENSILE STRENGTH | | | | | | | |
| MD | PSI | D882 | 16,700 | 16,000 | 16,000 | 13,800 | 12,300 |
| TD | | | 16,000 | 15,200 | 15,200 | 13,100 | 11,600 |
| ELONGATION | | | | | | | |
| MD | % | D882 | 115 | 120 | 125 | 130 | 130 |
| TD | | | 110 | 115 | 115 | 125 | 125 |
| TEAR STRENGTH | | | | | | | |
| MD | grams | D1922 | 10.5 | 14.5 | 17.5 | 23.5 | 28.5 |
| TD | | | 10.0 | 13.5 | 16.0 | 23.0 | 27.0 |
| COEFFICIENT OF FRICTION (Film to Film) | | | | | | | |
| Dynamic | | D1894 | 0.23 | 0.22 | 0.22 | 0.25 | 0.25 |
| Static | | | 0.24 | 0.23 | 0.24 | 0.26 | 0.25 |
| OPTICS | | | | | | | |
| Haze | % | D1003 | 2.2 | 2.6 | 3.2 | 3.9 | 4.5 |
| Clarity | | D1746 | 98 | 98 | 97 | 95 | 92 |
| Gloss @ 45Deg | % | D2457 | 85 | 85 | 83 | 81 | 80 |
| BARRIER | | | | | | | |
| Oxygen Transmission Rate | cc/m ² /day | D3985 | 11,300 | 10,800 | 7,200 | 5,400 | 4,500 |
| Water Vapor Transmission Rate | g/100sq"/day | F1249 | 2.0 | 1.8 | 1.6 | 1.3 | 1.0 |
| | | | 50-60 Gauge | | 75-125 Gauge | | |
| SHRINKAGE PROPERTIES | | | MD | TD | MD | TD | |
| Free Shrinkage | 212 °F | % | D2732 | 22 | 31 | 20 | 28 |
| | 230 °F | | | 38 | 45 | 34 | 45 |
| | 248 °F | | | 58 | 63 | 57 | 60 |
| | 266 °F | | | 65 | 67 | 64 | 65 |
| Shrink Tension | 212 °F | PSI | D2838 | 260 | 385 | 270 | 370 |
| | 230 °F | | | 390 | 510 | 415 | 530 |
| | 248 °F | | | 405 | 530 | 420 | 520 |
| | 266 °F | | | 375 | 455 | 390 | 440 |

This information represents our judgment based on tests performed, but Zhongcheng Packaging USA, Inc. assumes no liability whatsoever in connection with the use of this information or suggestions contained herein. They are given and accepted at the user's risk. We urge purchasers to conduct independent tests to determine final suitability for their specific application.