

2RD6N High Surface Friction



PRODUCT BULLETIN

Description

Hostaphan® 2RD6N are polyester films that offer high coefficient of friction (CoF) on one side and are chemically primed on the other side for enhanced adhesion. They combine high strength and flexibility, good dimensional stability and excellent chemical resistance.

Performance

Hostaphan® 2RD6N films have good dimensional stability over a wide temperature range. The primed surface provides enhanced adhesion to solvent based inks, coatings, and adhesives, as well as vacuum deposited metal. 2RD6N can be coated or metallized to enhance barrier properties.

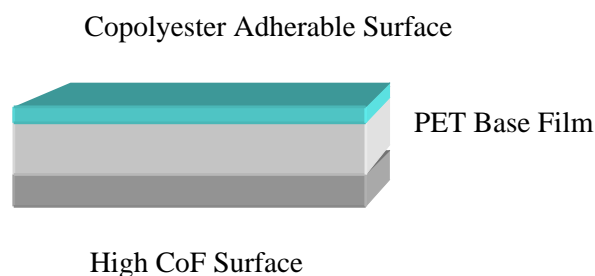
FDA Status

The uncoated side Hostaphan® 2RD6N can be used for direct food contact applications subject to limitations found in 21 CFR 177.1630. The chemically primed side of 2RD6N can be used in direct contact with dry foods and fatty foods and with aqueous foods under low temperature conditions. Other applications may require a functional barrier. For more information, contact your Mitsubishi Polyester Film Sales Representative.

Benefits

- Copolyester coated on one side (2RD6N) for adhesion to
- Most inks, barrier coatings, adhesives and metallization may be applied to the chemically treated side without additional priming
- Corona treatment of the primed side is necessary (or recommended)
- Excellent handling characteristics due to optimized slip characteristics between the top and bottom surfaces of the film
- High Friction side has kinetic CoF >0.80
- Standard gauge: 48

Schematic of Hostaphan® 2RD6N



Typical Properties of Hostaphan® 2RD6N Films

The Hostaphan® 2RD6N property values below are typical measurements. Further guidance on series selection, functional behavior by end use, film processing, standard roll configuration and gauges is available through a Mitsubishi Polyester Film Sales Representative.

| Property | Unit of Measure | | Typical Value | Test Method |
|----------------------------------|-------------------|--|--------------------------|-------------------------------|
| Area Yield | 48 ga. | in ² •mil/lb m ² •µm/kg | 19,800 717 | ASTM D 4321 |
| Tensile Strength | MD | psi kg/cm ² | 32,000 2,250 | ASTM D 882 |
| Yield Strength (F5) | MD | psi kg/cm ² | 15,000 1,050 | ASTM D 882 |
| Ultimate Elongation | MD | % | 100 | ASTM D 882 |
| Modulus | MD | psi kg/cm ² | 600,000 42,200 | ASTM D 882 |
| Coefficient of Friction 1 / 2 | Static Kinetic | -- | 0.40 0.37 | ASTM D 1894 |
| Coefficient of Friction 2 / 2 | Static Kinetic | -- | >0.8 >0.8 | ASTM D 1894 |
| Shrinkage | MD TD | % | 2.5 0.8 | 30 min. at 150°C |
| Tear Strength | MD | g/mil | 20 | ASTM D 1922 |
| Moisture Vapor Transmission Rate | | g /100 in ² •24 hr g /m ² •24 hr | 48 ga. 3.7 57 | ASTM E 96 |
| Oxygen Transmission Rate | | cc /100 in ² •24 hr•atm cc /m ² •24hr•atm | 48 ga. 9.1 141 | ASTM D 3985 |
| Density | | g/cm ³ | 1.395 | ASTM D 1505 |
| Total Haze* | | % | 48 ga. 3.0 | ASTM D-1003 |
| Surface Energy | | copolyester coated side acrylic coated side | approx. 50 approx. 43 | Internal test (contact angle) |

* Values for reference data only. Contact a Mitsubishi Polyester Film Sales Representative for actual gauges available.

Approved JT 1/11



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