2PRKN
Silicone Coated Film

Mitsubishi Chemical America, Inc.

Product Bulletin

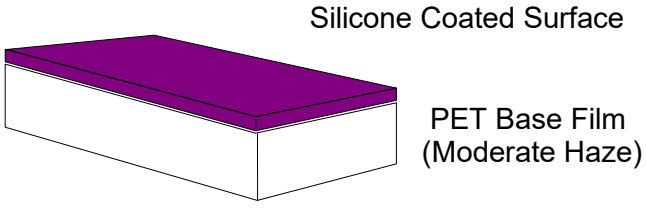
Description

Hostaphan™ 2PRKN is a one side silicone coated film with moderate haze. This special silicone coating is formulated to give premium release from selected solvent-based adhesives. Along with high strength, flexibility, and chemical resistance, this product provides excellent slip and good dimensional stability over a wide temperature range.

Performance

The silicone coating on Hostaphan™ 2PRKN is specially treated prior to winding. This special treatment minimizes back-side transfer of the silicone, which may affect the adhesion. Because the silicone is highly cured, there will be essentially no migration of the silicone to any adhesive which may be in contact with the film.

Schematic of Hostaphan™ 2PRKN



Benefits

- Minimum silicone rub-off
- Provides very consistent release level with aging
- Excellent handling characteristics
- Clear distortion free coating
- Ultra-thin, highly cured coating which does not smear
- Better than 95% subsequent adhesion
- No Static induced defects (Newton Rings)

WARNING:

Silicone coated film is very slippery. Do not discard scrap film on the floor. Injury may result if stepped on.

Typical Properties of Hostaphan™ 2PRKN Film

The Hostaphan™ 2PRKN 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 Polyester Film Sales Representative.

Property		Unit of Measure		Typical Value	Test Method
Area Yield		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 A/B	Kinetic	-		0.25	ASTM D 1894
Shrinkage	MD TD	%		1.5 0.4	30 min. at 150°C
Density		g/cm^3		1.395	ASTM D 1505
Total Haze*		%	106 gauge 118 “ 142 “	4.5 5.0 5.5	ASTM D 1003
SILICONE FUNCTIONALITY					
Release From Silicone Side		g/in		3 to10 < 8	T-peel from 3M 610 and TESA 4154 tape @ 12 in./min T-peel from laminate

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