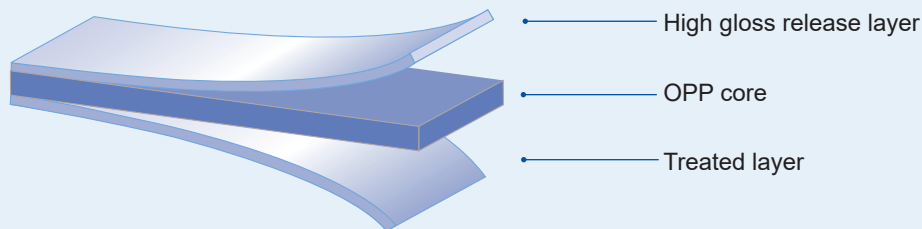


Propafilm™ NHD

Technical Data Sheet

NHD - Cold Seal release, high gloss, coextruded OPP film

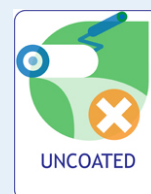
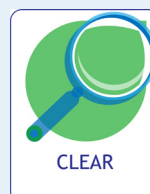


Features

- Consistent coefficient of friction due to non-migratory slip
- High transparency and gloss provide excellent shelf appeal
- Good print and adhesive bond strength
- Good moisture and odor barrier for product protection

Application

- Release from cohesive coatings
- Confectionery
- Baked Goods
- Combine with a cold seal receptive film



Technical Properties (Typical Values)

Property	Test Method	Test Conditions	Units	NHD			
Thickness	ASTM D 4321		micron	15	17	25	
			gauge	60	70	100	
Yield	ASTM D 4321		in ² /lb	51,600	44,100	30,900	
			m ² /kg	73.3	62.8	43.9	
Basis Weight	ASTM D 4321		g/m ²	13.7	15.9	22.8	
			lbs/ream	8.4	9.8	14.0	
Tensile strength	Innovia test method		N/mm ²	MD	140	140	140
				TD	340	340	340
			lbs/in ²	MD	20,300	20,300	20,300
				TD	49,300	49,300	49,300
Elongation at break	Innovia test method		%	MD	180	180	180
				TD	50	50	50
Nominal Density	Innovia test method		g/cm ³	0.91	0.91	0.91	
Gloss			[20%]	125	125	125	
Coefficient of Friction	Innovia test method			0.23	0.23	0.23	
Haze	Innovia test method			2.0	2.0	2.3	
MVTR	Innovia test method	38°C (100°F)/90% RH	g/m ² /day	8.0	8.0	4.4	
			g/100in ² /day	0.52	0.52	0.28	

MD Machine Direction TD Transverse Direction

All properties are tested under standard laboratory conditions: 73 ± 4F, 50 ± 5% RH (23 ± 2°C, 50 ± 5% RH) unless otherwise stated. Where relevant, tests are based on international standards. This document is not a product specification and does not guarantee any specific product attributes. Any existing commercial rights or patents must be observed.

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Propafilm™ NHD

Technical Data Sheet

Conversion

Treatment and Winding	Surface Printing
One surface treated for printing and/or laminating	Ink recommendations for all print processes are available
Treated surface wound to outside of roll	Release, treatment and anti-static properties guaranteed for 6 months only
See roll tag about treatment specific to roll	Excellent web flatness permits higher speed printing
	Run appropriate trials prior to production
	Consult your ink, coating or adhesive supplier

Conversion Note -

Where static electricity may be generated, use of static eliminators and maintaining a relative humidity >50% is recommended. Laminate with a cold seal receptive film such as QHH, MNS, MZS, MPS and QNH with solvent-based or solvent-less adhesives

Nominal Reel Diameters

Film	Length (metres)				
NHD 15	2,500	5,000	15,000	30,000	45,000
NHD 17	2,150	4,300	12,900	25,800	38,700
NHD 25	1,500	3,000	9,000	18,000	27,000

Film	Length (feet)				
NHD 60	8,202	16,404	49,213	98,425	147,638
NHD 70	7,054	14,108	42,323	84,646	126,969
NHD 100	4,921	9,843	29,528	59,055	88,583

Outside Diameter	1/2x	1x	3x	6x	9x
For 3in / 77mm core	9.5" (in) 241mm	13" (in) 333mm	-		
For 6in / 153mm core	-		22.7" (in) 577mm	31.3" (in) 796mm	38" (in) 965mm

All rolls are wound to length. Actual OD may vary with thickness and winding density variations.

Film Storage and Handling

The films should be placed in the processing area 24 hours prior to processing, to acclimatise. The films are largely unaffected by climatic conditions but should not be stored at temperatures above 104°F (40°C). Under suitable storage conditions, the film can be stored for a period of 6 months without any risk of deterioration.

Food Contact

Propafilm™ NHD is FDA approved for food contact. Please contact Technical Services for other Food Contact statements.

Health & Safety Guidelines

MSDS sheets, as well as other product safety documents, are available for our films upon request.

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