

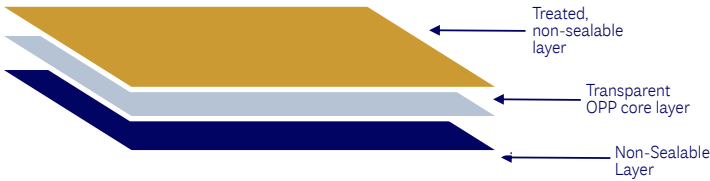


TPPPL - NHS - PL

DATA SHEET

www.tempopackaging.com

NHS - PL



Typical Applications (can be used as single web or laminate structure)

Rotogravure & Flexographic printing
 Lamination with other substrates
 Confectionery (Chocolate, Gum, Sugar, Chips, Snacks, Pasta)
 Bakery (Biscuits, Cookies, Crackers)
 Tea and coffee
 Hot wire welding, flower wrapping
 Miscellaneous, Industrial, Household application

Product Description

TPPPL - NHS - PL is transparent, high gloss, non-heat sealable, corona treated that can be used on wide range of packaging machines. This film is specially designed for printing & laminating applications. It can be used in HFFS & VFFS packaging process.

Key Features

- Outstanding optical properties
- Excellent ink adhesion
- Good mechanical properties
- Good anti-static and slip properties
- Good moisture barrier
- Excellent surface treatment retention

TECHNICAL SPECIFICATION

Properties	Unit	Method	Typical Values (NHS-PL)						
Physical Properties									
Nominal Thickness	μ	TPPPL	15	18	20	25	30	35	40
Grammage	gm/m ²	TPPPL	13.7	16.4	18.2	22.8	27.3	31.9	36.4
Density	Gm/cc	TPPPL	0.905 - 0.910						
Yield	m ² /kg	TPPPL	73.3	61.0	54.9	44.0	36.6	31.4	27.5
Optical Properties									
Haze (Max)	%	ASTM D 1003	1.5		1.6			1.7	
Gloss @ 45° (Min)	-	ASTM D 2457	90						
Surface Properties									
Wetting Tension (Min)	Dyne/cm	ASTM D 2578	38						
Dynamic Coefficient of Friction (NT/NT)	-	ASTM D 1894	0.40						
Mechanical Properties									
Tensile Strength (at Break) (Min)	N/mm ²	ASTM D 882 MD TD	140		280				
Elongation (at Break) (Max)	%	ASTM D 882 MD TD	180		50				
Elastic Modulus (Min)	N/mm ²	ASTM D 882 MD TD	1800		3000				
Thermal Properties									
Shrinkage@120°C 5 Minutes air (Max)	%	TPPPL MD TD	4.0		2.0				
Barrier Properties									
WVTR @ 38°C, 90% RH	Gm/m ² /24h	ASTM F 1249	8.2	8.0	8.0	7.5	7.0	6.5	6.0

MD- Machine Direction, TD- Transverse Direction, NT- Non-Treated, RH- Relative Humidity, TPPPL- Tempo Paper Pulp & Packaging Ltd.

Corona Treatment Indication

TPPPL – NHS-PL can be supplied either with treatment on the inside surface (TI) Outside Surface (TO) or treated on both sides (TB). This must be agreed with our sales representative before processing the order.

Roll Size Availability

Film Type	Standard Length (m)	2 x Std. Length	4 x Std. Length	6 x Std. Length	8 x Std. Length
NHS-PL 15	4250	8500	17000	25500	34000
NHS-PL 18	3550	7100	14200	21300	28400
NHS-PL 20	3200	6400	12800	19200	25600
NHS-PL 25	2550	5100	10200	15300	20400
NHS-PL 30	2100	4200	8400	12600	16800
NHS-PL 35	1800	3600	7200	10800	14400
NHS-PL 40	1600	3200	6400	9600	12800

Corresponding Roll's Outer Diameter

Core ID 76 mm	305 mm	419 mm	588 mm	716 mm	825 mm
Core ID 152 mm	337 mm	444 mm	605 mm	730 mm	838 mm

*For availability of roll sizes (multiples of standard length) please refer to the Sales Representative

Legal Statement

Contact your Tempo Customer Service Representative /Sales Representative for potential food contact application compliance (e.g. FDA, NAFDAC) & MSDS. This product is not intended for use in medical applications and should not be used in any such applications. The figures and data provided in this datasheet are consistent with the current state of our knowledge and are intended to provide general information about our products and their applications. They do not constitute a guarantee of any specific product attributes or the suitability of products for specific applications.

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