

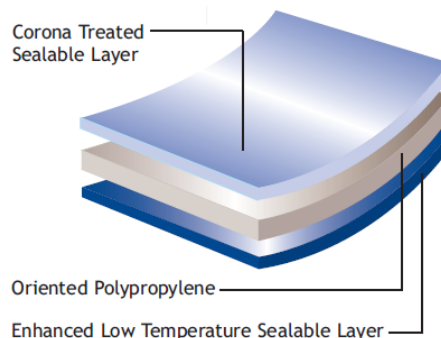
# TRANSPROP™ REF-F

## DESCRIPTION:

TRANSPROP™ REF-F is a low temperature heat-seal film Biaxially oriented, co-extruded polypropylene (BOPP) film With a low temperature heat-seal surface to allow high Speed form-fill-seal and overwrap packaging.

## CHARACTERISTICS:

- Heat-sealable on both sides
- Low heat-seal threshold on one surface
- Wide heat-seal range
- Excellent hot-tack
- Superior optical properties
- Excellent water vapor barrier
- Treated on one side for printing and laminating
- Exception puncture and impact-resistance



## TECHNICAL DATA:

PROPERTIES	UNIT OF MEASURE	Test Method	Test Conditions	REF-F	
Thickness	micron	Transcendia		25	30
Yield	m <sup>2</sup> /kg g/m <sup>2</sup>	Transcendia		44.0 22.7	36.6 27.3
Permeability to : Water Vapor	g/m <sup>2</sup> .24 hours	ASTM F 1249	23 °C 85% RH 38 °C 90% RH	1.2 6.0	1.0 5.0
Oxygen	cc/m <sup>2</sup> .24 hours	ASTM F 1927	25 °C 0% RH	1800	1600
Optical Gloss	units	ASTM D 2457	45°	85	
Haze (wide angle)	%	ASTM D 1003	2.5°	1.0 -2.0	
Coefficient of friction (film to film)		ASTM D 1894	Dynamic	0.25-0.40	
Corona treatment	dynes/cm	Transcendia		>38	
Tensile strength	MN/ m <sup>2</sup> MD TD	ASTM D 882	Strain rate 50% / min.	230 190	
Elongation at break	% MD TD	ASTM D 882	Strain rate 50% / min.	90 125	
Elasticity modulus (1% secant)	MN /m <sup>2</sup> MD TD	ASTM D 882	Strain rate 10% / min.	2500 2100	
Sealing range	°C	Transcendia	2 secs; 0.10 MN/m <sup>2</sup>	80-145 untreated to untreated	
Seal strength	grams / 25mm	Transcendia	130° C; 2 secs; 0.10 MD / m <sup>2</sup>	>400 untreated to untreated	
Shrinkage	% MD TD	Transcendia	60 secs at 130° C	6.0 -1.0	

All properties are tested under standard laboratory conditions: 23+/- 2° C; 50 +/- 5% RH, unless otherwise stated. Where relevant, tests are based on international testing standards.  
 MD – Machine Direction  
 TD – Transverse Direction

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Film	Length / (metres)					
	REF-F 25	1500	3000	6000	9000	12000
REF-F 30	1250	2500	5000	7500	10000	15000
Outside Diameter for 77mm core	240mm	330mm	450mm	ns	ns	ns
Outside Diameter for 153mm core	n2	n2	475mm	570mm	650mm	785mm
ns = non-standard Other reel lengths are available subject to negotiation.						

### Corona Discharge Treatment

Corona discharge treatment is available on either the inner or outer surface of TRANSPROP™ REF-F. The treated surface is indicated by a symbol on a label attached to each reel.

Treated Surface	Ordering Code	Label Symbol
Inside	1	
Outside	0	

### Film Storage

It is recommended that reels are stored in dry conditions at temperatures below 300 C. It is recommended that dry conditions at temperatures below 300 C are employed to minimize deterioration of surface discharge treatment levels. TRANSPROP™ REF-F is suitable for use for 6 months from the date of delivery and stocks should be used in rotating. Films should be allowed to reach operating room temperatures for 24 hours before use.

### Food Contact

TRANSPROP™ REF-F complies with the applicable EC legislation for most applications involving direct contact with foods. Full details are given on the Declaration of Compliance. Customers intending to use TRANSPROP™ REF-F in a food contact application should request a copy of this document. Details of compliance with food contact legislation in non-EU countries are also available upon request.

All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own test. Transcendia shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.

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