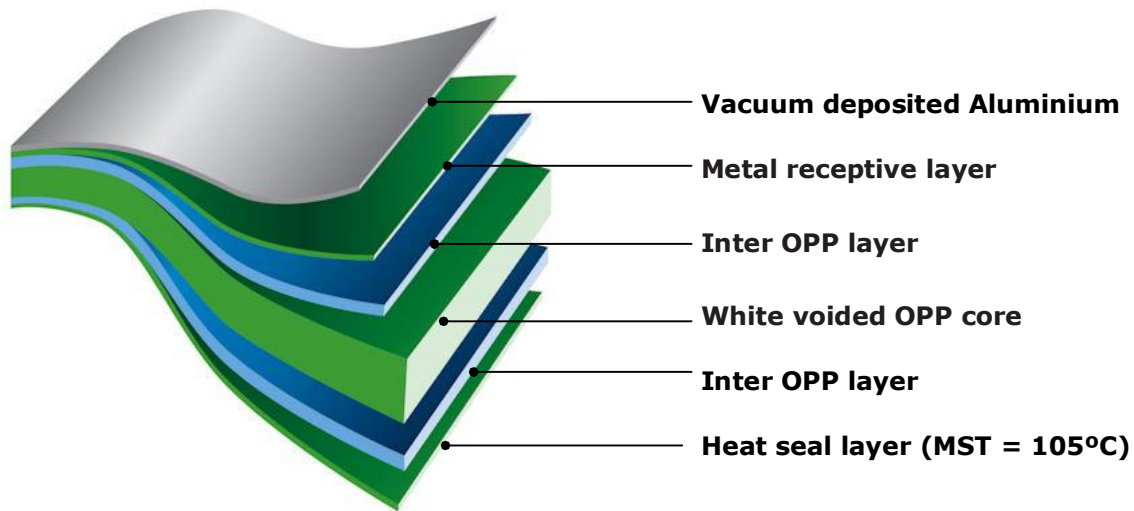




ZRD

**BoPP white voided metallised film,
one side heat sealable**



PROPERTIES

- White appearance on the non metallised side
- High gloss surfaces
- High yield
- Excellent light protection
- Excellent moisture barrier
- Good Oxygen barrier
- Consistent and improved slip

TYPICAL APPLICATIONS

- Rotogravure and flexographic printing
- Lamination
- Single web structure
- Suitable for cold seal adhesives
- HFFS and VFFS packaging

ROLL SIZE AVAILABILITY*

Film	Standard Length (m)	4x (m)	6x (m)	8x (m)
ZRD 35	1,800	7,200	10,800	14,400
ZRD 40	1,550	6,200	9,300	12,400
Outside diameter – core 76 mm	305 mm	588 mm	716 mm	825mm
Outside diameter - core 152 mm	337 mm	605 mm	730 mm	838 mm

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

ZRD

Properties	Method	Unit	Ref.	Typical values	
Nominal thickness	Internal method	µm		35	40
Unit weight		g/m ²		25.9	29.6
Yield		m ² /kg		38.5	33.8
Tensile strength	ASTM D882	N/mm ²	MD TD	90 200	
Elongation at break		%	MD TD	100 30	
Optical density (O.D.)	Internal Method			2.5	
Dynamic cof	ASTM D1894		NT/NT	0.35	
Thermal shrinkage	Internal method (130°C , 5 mins)	%	MD TD	6.0 4.0	
Heat seal range	Internal method	°C	NT/NT	105-140	
Seal strength	Internal method 130°C ;0.5 s	g/cm		200	
Oxygen permeability	ASTMD3985 (23°C - 0% RH)	cm ³ /m ² /d		40	
Water vapour permeability	ASTM F1249 (38°C - 90% RH)	g/m ² /d		0.3	

Tolerance		
Weight	≤ 1.000 kg	± 20%
	1.001-10.000 kg	± 10%
	> 10.000 kg	± 5%

STORAGE, HANDLING AND APPLICATION

ZRD does not require special storage conditions. A storage temperature between 20 °C and 30°C is recommended in order to minimise the deterioration of the film properties in general. It is advisable to turn over the inventory according to the delivery date (first in-first out). The film should be conditioned in the operating environment at least for 24 hours before processing. ZRD is suitable for use up to 6 months from the date of production..

PRINTABILITY/ LAMINATION

In line refreshment of corona treatment is strongly recommended before processing the material. An adequate primer is recommended when the metallised surface is to be printed. The metallised surface can normally be laminated with appropriate products.

INDICATION OF SURFACE TREATMENT

ZRD film is usually supplied with metallised side on the outside surface (TO). ZRD film can be supplied with metallised on the inside surface (TI). This must be agreed with our sales representative before processing the order.

FOOD CONTACT

ZRD film complies with EC and FDA regulations. Specific document and MSDS are available upon request.

The property values represented in the table do not constitute product specifications, but represent the average or typical values. Use of this information is limited to the specific recipient. While the information is accurate to the best of our knowledge as of the date compiled, it is limited to the information as specified. No representation or warranty, expressed or implied, is made regarding the information, or its completeness or fitness to a particular use. The user is solely responsible for all determinations regarding use and we disclaim liability for any loss or damage that may occur from the use of this information. Ti does not guarantee the typical (or other) values.