

# MET

## Metallized BOPP Film



### DESCRIPTION :

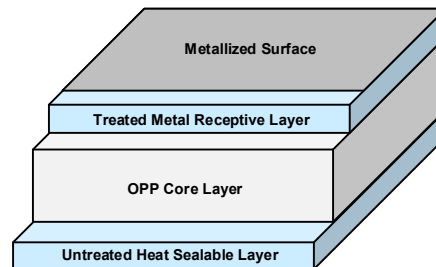
**Gulf Pack MET** is a co-extruded, bi-axially oriented heat sealable polypropylene film, one side treated and metallized with high purity aluminum & other side untreated.

### PRODUCT FEATURES :

One side aluminum coated  
 Excellent metal adhesion & web flatness  
 Good optical density.  
 Outstanding barrier to moisture, gas & odors  
 Excellent light barrier enhances shelf life.  
 Good seal strength on non-metallized side.  
 Good resistance to oils, fats & flex cracking

### APPLICATIONS :

As inner web for adhesive lamination.  
 Packaging for moisture & odor sensitive food stuffs as coffee, snack foods, chips, cookies, etc..  
 Surface printed for ice cream and candy over wrap.  
 Specialty as gift wrap and flower designing.



PROPERTIES		UNIT	TYPICAL VALUES				TEST METHOD.
PHYSICAL	Thickness	Microns	18	20	25	30	ASTM D 374
		Gauge	72	80	100	120	
	Grammage	g/m <sup>2</sup>	16.38	18.20	22.75	27.30	*GPIM
		lbs/ream	10.1	11.2	14.0	16.8	
	Yield	m <sup>2</sup> /kg	61.05	54.95	43.96	36.63	
		in <sup>2</sup> /lb	43,000	38,700	31,000	25,800	
	Coefficient of Friction (Film/Film)		0.35				ASTM D 1894
	Surface Tension (Treated Side)	dynes/cm	38				ASTM D 2578
OPTICAL	Optical Density	%	2.0				GPIM
MECHANICAL	Tensile Strength at Break	*MD	15				ASTM D 882
		*TD	27				
		MD	21,330				
		TD	38,394				
	Elongation at Break	MD	170				ASTM D 882
		TD	50				
THERMAL	Thermal Shrinkage	MD	< 4.0				GPIM (120°C (248°F), 5 min, air)
		TD	< 2.0				
	Heat Seal Range	°C (°F)	105 – 140 (221 – 284)				GPIM
	Heat Seal Strength (Film/Film)	g/15mm	275				GPIM (130°C, 1bar, 1sec)
lb/0.59in		0.60				GPIM (266°F, 14.5psi, 1 sec)	
BARRIER	Water Vapor Permeability (W.V.T.R.)	g/m <sup>2</sup> /24h	0.40 - 0.80				ASTM F 1249 (38°C / 90% RH)
		g/100in <sup>2</sup> /24h	0.026 – 0.051				
	Oxygen Transmission Rate (O.T.R.)	cc/m <sup>2</sup> /24h	60				ASTM D 3985 (23°C / 0% RH)
		cc/in <sup>2</sup> /24h	3.90				

\* GPIM – Gulf Pack Internal Method      \*MD – Machine Direction      \*TD – Transversal Direction

**Gulf Pack MET** films comply with the EU Regulation 10/2011/CE and USA FDA Code of federal regulations CFR21 section 177.1520 (c) 1.1 and is suitable for use in packaging, transporting or holding foods.

The information contained in this technical leaflet is to the best of our knowledge & experience. Since the conditions under which our products maybe used are beyond our control, recommendations are made without warranty or guarantee.

Bi-axially oriented polypropylene film aged with time and will exhibit deterioration of properties if it is not stored in a dry environment at a temperature 30°C or below. We highly recommend our customer to use recommended storage condition and consume product before 3 months from date of production in our plant.

Detail advice regarding other specific application of **Gulf Pack MET** and other films in the Gulf Pack range is available upon request.

SALES CONTACT HEAD OFFICE  
**(KSA):**  
 Abdul Qawi  
 Gulf Packaging, P.O. Box 1503,  
 Jubail 31951, KSA  
 Tel.: +966-3-3412244 Ext. 204  
 Fax: +966-3-3404161  
 E-Mail: [Qawi@gulfpack.com.sa](mailto:Qawi@gulfpack.com.sa)

EUROPE:  
 Carla Capra  
 Via Lanza, 132 - 15033  
 Casale Monferrato (AL) Italy  
 Tel.: +39 0142 453802  
 Fax: +39 0142 424046  
 E-Mail: [Carla@plasticmedia.it](mailto:Carla@plasticmedia.it)

USA:  
 Jonathan Grooms  
 P.O.Box 51144  
 Summerville, SC 29485  
 Tel.: (+001) 843-725-8123  
 Fax: (+001) 843-410-5731  
 E-Mail: [grooms@gulfpack.us](mailto:grooms@gulfpack.us)

Revised 08/2012