

# NF203

## One Side Non-Heat Sealable Matte Surface



**DESCRIPTION :**

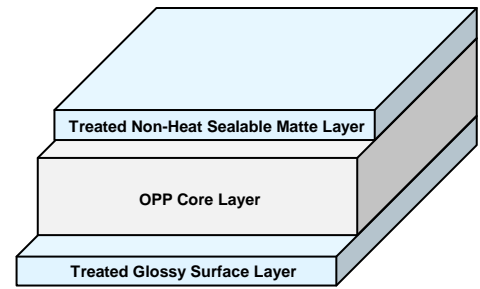
**Gulf Pack NF203** is a film having one side non-heat sealable matte surface, other side reflective glossy surface, both sides treated.

**PRODUCT FEATURES :**

- Excellent matte appearance
- Both sides treated
- Excellent bond strengths with inks and adhesives coatings
- Good mechanical properties

**APPLICATIONS :**

- Lamination to paper boards, book covers, etc.
- HFFS & VFFS packaging
- Base film for pressure sensitive tapes



PROPERTIES		UNIT	TYPICAL VALUES					TEST METHOD.	
PHYSICAL	Thickness	Microns	15	18	20	25	30	ASTM D 374	
		Gauge	60	72	80	100	120		
	Grammage	g/m <sup>2</sup>	12.92	15.45	17.20	21.50	25.80	*GPIM	
		lbs/ream	7.93	9.47	10.55	13.19	15.83		
	Yield	m <sup>2</sup> /kg	77.4	64.82	58.23	46.61	38.82		
		in <sup>2</sup> /lb	54.48	45,662	40,980	32,805	27,323		
Coefficient of Friction (Film/Film)			0.40					ASTM D 1894	
Surface Tension (Treated Side)		dynes/cm	38					ASTM D 2578	
OPTICAL	Gloss (45°) GS / MS		50 / 10					ASTM D 2457	
MECHANICAL	Tensile Strength at Break	*MD	kg/mm <sup>2</sup>	12					ASTM D 882
		*TD		22					
		MD	psi	17,064					
		TD		31,284					
	Elongation at Break	MD	%	180					ASTM D 882
		TD		50					
	Modulus of Elasticity	MD	kg/mm <sup>2</sup>	200					ASTM D 882
		TD		375					
		MD	psi	284,400					
		TD		583,250					
THERMAL	Thermal Shrinkage	MD	%	< 4.0					GPIM (120°C (248°F), 5 min, air)
		TD		< 2.0					

\* GPIM – Gulf Pack Internal Method

\*MD – Machine Direction

\*TD – Transverse Direction

**Gulf Pack NF203** films comply with EU Regulation 10/2011/EC and USA FDA Code of Federal Regulations CFR21 section 177.1520 (c) 1.1 and are suitable for use in packaging, carrying and transporting foodstuffs.

The information contained in this technical leaflet illustrates typical values only and are to the best of our knowledge. Since the conditions under which our films may be used are beyond our control, such values are declared without warranty or guarantee.

Bi-axially oriented polypropylene films age with time and will exhibit deterioration of some properties if not stored in a suitable environment at a temperature 30°C or below. We strongly advise our customers to use recommended storage conditions and consume products before 6 months from date of production in our plant.

**Gulf Pack NF203** standard surface treatment location is on both sides (B); other treatment preference can be arranged upon agreement with the sales representative before order processing.

Detailed advice regarding other specific applications of **Gulf Pack NF203** and other films in the Gulf Pack range is available upon request.