

# CSP

## Cold Seal Release Film (Non-Heat Sealable Skin Layer)



**DESCRIPTION :**

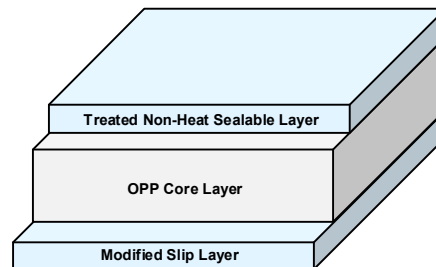
Gulf Pack CSP is a bi-axially oriented Non-heat sealable polypropylene film with improved slip properties, specifically developed for release film in laminated structures when adhesive is applied.

**PRODUCT FEATURES :**

Improved slip and antistatic properties.  
Excellent optical properties.  
Excellent cold seal release properties.  
High surface treatment.

**APPLICATIONS :**

Release film application.  
Cold seal Application.



PROPERTIES		UNIT	TYPICAL VALUES			TEST METHOD.
PHYSICAL	Thickness	Microns	20	25	30	ASTM D 374
		Gauge	80	100	120	
	Grammage	g/m <sup>2</sup>	18.20	22.75	27.30	*GPIM
		lbs/ream	11.2	14.0	16.8	
	Yield	m <sup>2</sup> /kg	54.95	43.96	36.63	
		in <sup>2</sup> /lb	38,700	31,000	25,800	
Coefficient of Friction (Film/Film)			0.30			ASTM D 1894
Surface Tension (Treated Side)		dynes/cm	38			ASTM D 2578
OPTICAL	Haze	%	1.5			ASTM D 1003
	Gloss (45°)		90			ASTM D 2457
MECHANICAL	Tensile Strength at Break	*MD	kg/mm <sup>2</sup>	15		ASTM D 882
		*TD		27		
		MD	psi	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		

\* GPIM – Gulf Pack Internal Method

\*MD – Machine Direction

\*TD – Transversal Direction

Gulf Pack CSP 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 6 months from date of production in our plant.

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