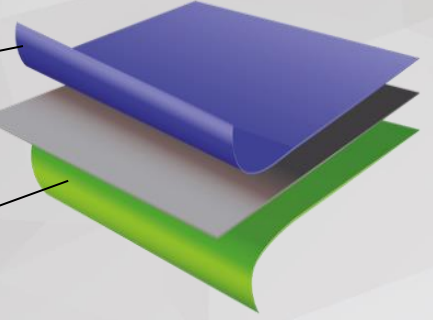


Treated Polypropylene Layer

Polypropylene Core Layer

Matt Layer with Release Property



# SUPLAIN

## 9301 CSR

### Description

SUPLAIN 9301 CSR is a one side matt, biaxially oriented polypropylene film. No heat seal property. One side is treated.

Matt print lamination film for high value added products. It can be laminated to paper, board, BOPP, PET and other substrates. Matt finish layer gives non-reflective surface, for better visual capability for special applications like book cover, menu, billboard, poster, etc.

Matt side is specifically designed to be used as release surface on cold seal structures. We strongly advise to perform trials at actual conditions and structures since very different types of cold seal systems are used.

### Properties

- Matt appearance on non-treated side
- Release property on matt side against cold seal
- Excellent adhesion to inks and coatings
- Excellent adhesion to lamination adhesives
- Low static property
- Resistance to chemicals, greases and oils
- Excellent machinability
- Good moisture barrier
- Excellent dimensional stability

## Technical Features

PROPERTIES	TEST METHOD	UNITS		9301 CSR
THICKNESS	ASTM F2251	micron		20
		Gauge		80
YIELD	ASTM D4321	m <sup>2</sup> /kg		58,8
		in <sup>2</sup> /Lbs		41.400
UNIT WEIGHT	ASTM D4321	g/m <sup>2</sup>		17,0
HAZE	ASTM D1003	%		80
GLOSS (45 °) (*)	ASTM D2457	%		12
TENSILE STRENGTH AT BREAK	ASTM D882	MD	N/mm <sup>2</sup>	130
			lb/in <sup>2</sup>	18.900
		TD	N/mm <sup>2</sup>	240
			lb/in <sup>2</sup>	34.700
ELONGATION AT BREAK	ASTM D882	MD	%	160
		TD		60
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D1204	MD	%	3
		TD		1
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film		0,30
		Film/Metal		0,20
SURFACE TENSION	ASTM D2578	Dyne/cm	Treated Side	38
			Other Side	-

### (\*) Matt surface

#### Regulatory Status

Our product complies with the applicable EC legislation on packaging involving direct contact with foods except metallized films. Full details are given on the Regulatory Compliance Certificate and can be found on our web site.

The information contained in this data sheet is true and accurate according to current state of our knowledge and intended to give general information on our products and their applications. Above values are to be considered as guidelines and not as product specifications. Since the actual conditions of use are beyond our control, users are advised to make their own tests at their specific conditions of laboratory and/or actual use. We suggest our customers to determine final suitability for their specific end uses.

Also be advised that information on this data sheet shall not be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing, pending or future patents.

**For related spec sheet with tolerance values, please contact our sales departments**