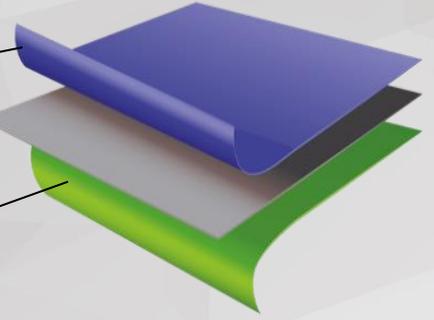


Treated High Adhesion Layer

Polypropylene Core Layer

Polypropylene Layer



## SUPLAIN

### 1011 & 1011 A

#### Description

SUPLAIN 1011 & 1011 A are transparent, biaxially oriented polypropylene (BOPP) film. One side is treated with high adhesion property. No heat seal property.

Specially designed for excellent ink and adhesive adhesion due to high adhesion treated layer.

Designed to be used as single ply surface print and/or lamination substrate for different packaging and industrial applications. Can be also used as outer web release substrate for cold seal structures.

1011 A is specially designed for PSA tape applications where excellent adhesive and release lacquer bonding are required.

#### Properties

- Excellent mechanical and dimensional properties
- High gloss and clarity
- Excellent adhesion to inks and coatings
- Excellent adhesion to lamination adhesives with different substrates
- Resistance to chemicals, greases and oils
- Good moisture barrier
- Excellent adhesion to water and acrylic based adhesive coatings and hot melt adhesives

## Technical Features

PROPERTIES	TEST METHOD	UNITS	1011		1011 A		1011					
THICKNESS	ASTM F2251	micron	15	20	25	28	30	33	35	37	38	40
		Gauge	60	80	100	112	120	132	140	148	152	160
YIELD	ASTM D4321	m <sup>2</sup> /kg	73,3	54,9	44,0	39,2	36,6	33,3	31,4	29,7	28,9	27,5
		in <sup>2</sup> /Lbs	51.500	38.600	30.900	27.600	25.800	23.400	22.100	20.900	20.300	19.300
UNIT WEIGHT	ASTM D4321	g/m <sup>2</sup>	13,7	18,2	22,8	25,5	27,3	30,0	31,9	33,7	34,6	36,4
HAZE	ASTM D1003	%	1,2		1,5		1,6					
GLOSS (45 °)	ASTM D2457	%	94									
TENSILE STRENGTH AT BREAK	ASTM D882	MD	N/mm <sup>2</sup>	150								
			lb/in <sup>2</sup>	21.800								
		TD	N/mm <sup>2</sup>	280								
			lb/in <sup>2</sup>	40.600								
ELONGATION AT BREAK	ASTM D882	MD	180									
		TD	60									
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D1204	MD	3									
		TD	1									
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film	0,35									
		Film/Metal	0,20									
SURFACE TENSION	ASTM D2578	Dyne/cm	Treated Side	38								
			Other Side	-								

### 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**