



## SUPLAIN

### 1021 SGL / 1022 SGL

#### Description

SUPLAIN 1021 SGL and 1022 SGL are a transparent biaxially oriented polypropylene (BOPP) film for general applications. No heat seal property. 1021 SGL is one side treated, 1022 SGL is both sides treated.

Due to its superior thermal and mechanical properties in comparison to standard BOPP films, SUPLAIN 1021 SGL and 1022 SGL films are a perfect choice for high heat resistant BOPP applications primarily for monomaterial packaging design. It is advised to test it at actual conditions during converting and packaging processes.

Any possible caution for blocking tendency during printing and/or other processes should be taken since the film is both sides treated.

#### Properties

- High gloss and clarity
- One side treated or Both sides treated.
- Excellent stiffness and dimensional stability
- Excellent ink, coating and adhesive adhesion
- Good moisture barrier
- Resistance to chemicals, greases and oils
- The film shelf life is 6 months for 1021 SGL, 3 months for 1022 SGL

## Technical Features

PROPERTIES	TEST METHOD	UNITS	1021 SGL					1022 SGL			
			20	25	30	40	50	20	30	40	50
THICKNESS	ASTM F2251	micron	20	25	30	40	50	20	30	40	50
		Gauge	80	100	120	160	200	80	120	160	200
YIELD	ASTM D4321	m <sup>2</sup> /kg	54,9	44,0	36,6	27,5	22,0	54,9	36,6	27,5	22,0
		in <sup>2</sup> /Lbs	38.600	30.900	25.800	19.300	15.500	38.600	25.800	19.300	15.500
UNIT WEIGHT	ASTM D4321	g/m <sup>2</sup>	18,2	22,7	27,3	36,4	45,5	18,2	27,3	36,4	45,5
HAZE	ASTM D1003	%	1,0	1,2	1,5	1,7	2,2	1,0	1,5	1,7	2,2
GLOSS (45 °)	ASTM D2457	%	95								
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>	290							
			lb/in <sup>2</sup>	42.000							
ELONGATION AT BREAK	ASTM D882	MD	190								
		TD	60								
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D2732	MD	3								
		TD	1								
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film	0,40								
		Film/Metal	0,30								
SURFACE TENSION	ASTM D2578	Dyne/cm	Treated Side	38				38			
			Other Side	-				38			

### “Product Identification (Decision 97/129/EC): PP5”

#### 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 film can also be supplied with ISCC+ certified raw materials with the category of bio-circular feedstock under the product group of SUPRENEW and category of circular feedstock under the product group of SUPCYCLE. SUPRENEW and SUPCYCLE products are certified with “Mass Balance” chain of custody system under ISCC+ and due to chemical processing of the feedstock, there is no compromise & change on any specific feature of the film given in this TDS regardless of the sustainable content in the film. Therefore all product properties of this film covers the same product code with SUPRENEW or SUPCYCLE brand. Three digits will be added to the end of the ISCC+ certified product code. SUPRENEW products will be differentiated with Rxx (R will communicate that the film is circular xx code will communicate the sustainable content % of the film) and SUPCYCLE products will be differentiated with Pxx (P will communicate that the film is circular xx code will communicate the sustainable content % of the film). Further details of the sustainable content of the film will be given in the Sustainability Declaration (SD) prepared for each ISCC+ certified order.

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**

STANDARD ROLL DIMENSIONS			
CORE INNER DIAMETER (ID)	CORE OUTER DIAMETER (OD)	LENGTH TOLERANCE	WIDTH TOLERANCE
76 mm (3 in) & 152 mm (6 in)	530 mm & 790 mm *	± % 5 for ≤ 390 mm OD ± % 10 for > 390 mm OD	- 0 & + 4 mm

\* 790 mm OD is available for BOPP films above 350 mm width