



# SUPERSEAL

## 4111 MPH

### Description

SUPERSEAL 4111 MPH is a white opaque, cavitated, biaxially oriented polypropylene (BOPP) film with modified higher density and stiffness. Both sides heat sealable. One side treated with standard sealing layer. Other sealing layer has low SIT (Seal Initiation Temperature) down to 80°C (176°F).

Specially designed for general purpose heat sealable use on VFFS and HFFS packaging applications where high stiffness is needed for better machinability such as ice-cream, wafers, biscuits, etc. packaging.

### Properties

- Higher density and stiffness
- Excellent wide sealing range with low SIT
- Excellent hot tack and heat seal strength
- Excellent dimensional stability
- Outstanding opacity to prevent product show-through
- Good moisture barrier
- Excellent UV light protection
- Resistance to chemicals, greases and oils
- Excellent adhesion to inks, coatings and adhesives
- The film shelf life is 6 months

## Technical Features

PROPERTIES	TEST METHOD	UNITS	4111 MPH	
THICKNESS	ASTM F2251	micron	25	35
		Gauge	100	140
YIELD	ASTM D4321	m <sup>2</sup> /kg	50,0	35,7
		in <sup>2</sup> /Lbs	35.200	25.100
UNIT WEIGHT	ASTM D4321	g/m <sup>2</sup>	20,0	28,0
GLOSS (45 °)	ASTM D2457	%	65	65
LIGHT TRANSMISSION	ASTM D1746	%	25	30
OPACITY	DIN 53146	%	78	88
TENSILE STRENGTH AT BREAK	ASTM D882	MD	N/mm <sup>2</sup>	80
			lb/in <sup>2</sup>	11.600
		TD	N/mm <sup>2</sup>	160
			lb/in <sup>2</sup>	23.200
ELONGATION AT BREAK	ASTM D882	MD	%	120
		TD	%	40
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D1204	MD	%	3
		TD	%	1
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film		0,45
		Film/Metal		0,30
SURFACE TENSION	ASTM D2578	Dyne/cm	Treated Side	38
			Other Side	-
HEATSEAL RANGE (*)	ASTM F88	°C	80 - 145	
		°F	176 - 293	
HEATSEAL STRENGTH (*) (80 °C, 1 MPa, 1 s)	ASTM F88	N/15mm	2,0	

(\*) Low SIT surface

### “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

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