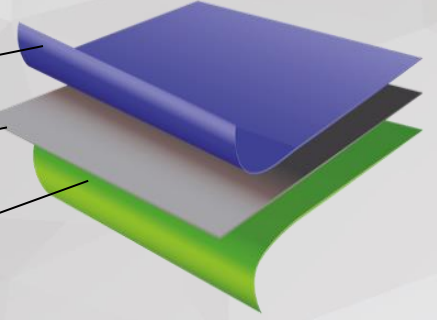


Sealant Layer (Treated for 4011) ←

Polypropylene Core Layer ←

Low SIT Layer ←



## SUPERSEAL

### 4010 / 4011

#### Description

SUPERSEAL 4010 and 4011 are a transparent, coextruded BOPP film. Both sides heat sealable and treated or non treated. One side treated with standard sealing layer for 4011. Non-treated sealing layer has low SIT (Seal Initiation Temperature) down to 80 °C (176 F).

It is specially designed for high speed HFFS machines for making units and/or multiple packs where the low SIT is needed. Standard sealing side has special property for problem free piling up of the packs and units.

Low SIT also makes this film an excellent material for spherical packaging where at least six folds must be perfectly heat sealed at the ends.

#### Properties

- Excellent wide sealing range with low SIT
- Excellent hot tack and heat seal strength
- Excellent clarity and gloss
- Good moisture barrier
- Excellent resistance to chemicals, greases and oils
- Excellent ink and coating adhesion
- A to B sealing capability

## Technical Features

PROPERTIES	TEST METHOD	UNITS	4010	4011
THICKNESS	ASTM F2251	micron	20	
		Gauge	80	
YIELD	ASTM D4321	m <sup>2</sup> /kg	54,9	
		in <sup>2</sup> /Lbs	38,600	
UNIT WEIGHT	ASTM D4321	g/m <sup>2</sup>	18,2	
HAZE	ASTM D1003	%	1,7	
GLOSS (45 °)	ASTM D2457	%	90	
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	% 210	
		TD	% 70	
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	Other Side	38
			Low SIT 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

#### 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