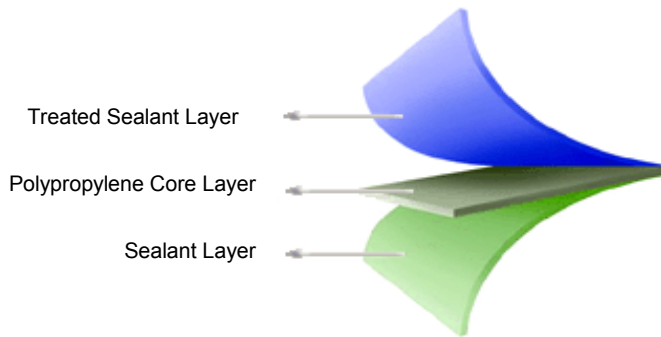


# SUPEX 2011



## DESCRIPTION

SUPEX 2011 is a transparent, coextruded biaxially oriented polypropylene film. Both sides heat sealable. One side treated.

Lamination purpose packaging film for use on HFFS and VFFS packaging machines where the strong seals and excellent hot-tack is needed. It can not recommended to single ply applications to itself under 30 micron thickness.

## PROPERTIES

1. Broad seal range
2. Excellent hot tack and heat seal strength
3. Good hot slip
4. Excellent dimensional stability
5. High clarity and gloss
6. Good moisture barrier
7. Resistance to chemicals, greases and oils
8. Excellent adhesion to inks, coatings and lamination adhesives.
9. Low static property

PROPERTIES	TEST METHOD	UNITS	2011									
			15	17,5	20	22,5	25	30	35	40	50	
THICKNESS	ASTM D 374	micron	15	17,5	20	22,5	25	30	35	40	50	
		Gauge	60	70	80	90	100	120	140	160	200	
YIELD	ASTM D 4321	m <sup>2</sup> /kg	73,3	62,8	54,9	48,8	44,0	36,6	31,4	27,5	21,9	
		in <sup>2</sup> /Lbs	51.500	44.200	38.600	34.300	30.900	25.700	22.100	19.300	15.400	
HAZE	ASTM D 1003	%	2,0	2,0	1,9	1,9	1,9	1,9	1,9	1,9	1,9	
GLOSS (45°)	ASTM D 2457	%	90									
TENSILE STRENGTH AT BREAK	ASTM D 882	MD	N/mm <sup>2</sup> lb/in <sup>2</sup>	170								
				24.600								
ELONGATION AT BREAK	ASTM D 882	TD	N/mm <sup>2</sup> lb/in <sup>2</sup>	290								
				42.000								
THERMAL SHRINKAGE (120 °C, 5 min, in air)	ASTM D 1204	MD	%	180								
				70								
COEFFICIENT OF FRICTION	ASTM D 1894	TD	%	4								
				2								
SURFACE TENSION	ASTM D 2578	Film/Film	Dyne/cm	O	0,30							
					Film/Metal	I	0,20					
HEATSEAL RANGE	ASTM F 88	°C	°F	38								
				-								
HEATSEAL STRENGTH (120 °C, 1 MPa, 1 sec)	ASTM F 88	N/15mm		105-145								
				221-293								
				2,5								

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**



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