

## **IntePro® Standard Products and Tolerance**

### **Standard Thickness and Weight of Polypropylene (PP) IntePro**

Thickness	2 mm	3 mm	4 mm	5 mm	6 mm	7 mm	8 mm	10 mm	13 mm	16 mm	19 mm	25 mm
Unit Weight in g/m <sup>2</sup>	490	600	750	1,000	1,400	1,700	1,800	2,000	2,690	3,300	4,000	4,800
Unit Weight in lbs/msf	100	123	154	205	287	348	369	410	550	680	820	984

Note: PP IntePro of special weight and thickness may be available upon request.

### **Tolerance of IntePro**

**(a) Width:**

Mill-Run IntePro:  $\pm 1/8''$

Square-Cut IntePro:  $\pm 1/16''$

**(b) Length** variation is listed in the following table.

IntePro Length	Mill-Run IntePro	Square-Cut IntePro
0" to < 48"	0" to +3/4"	-1/16" to +1/8"
48" to < 96"	0" to +1 1/2"	-1/8" to +1/4"
$\geq 96''$	0" to (1 1/2" + 1/4" x N*)	$\pm 1/4''$

Note: N = (Length of IntePro in inches – 96'') / 24''

**(c) Thickness:**  $\pm 5\%$

**(d) Unit Weight:**  $\pm 5\%$

**(e) Surface Treatment (ASTM D2578):** > 46 dyne/cm (2 to 8 mm in thickness)  
 > 42 dyne/cm (10 to 13 mm in thickness)  
 > 40 dyne/cm (16 to 25 mm in thickness)

**(f) Square Tolerance** is the difference of the two diagonals of IntePro board.

IntePro Length	Mill-Run IntePro	Square-Cut IntePro
0" to < 48"	< 3/8"	< 1/16"
48" to < 96"	< 3/4"	< 1/8"
$\geq 96''$	< (3/4" + 1/4" x N*)	< 1/4"

Note: N = (Length of IntePro in inches – 96'') / 24''

**(g) Straightness:** IntePro may slightly curve in along flute direction. The straightness is related to the ratio of length and width of IntePro board. The more slender the board is, the more obvious the curve is. The straightness can be obtained from measuring the maximum gap between a straight edge and an IntePro board when the two corners of IntePro board touch the straight edge. The tolerance of straightness of mill-run IntePro is listed in the following two tables.

Length of IntePro is < 96”

Ratio of Length to Width	0 to <3	$\geq 3$
Straightness Tolerance	< 1/8"	< 3/16"

Length of IntePro is  $\geq 96$ ”

Ratio of Length to Width	0 to <3	3 to <4	$\geq 4$
Straightness Tolerance	< (3/16"+1/16"x N*)	< (3/16"+1/16"x N*)	< (1/4"+1/16"x N*)

Note: N = (Length of IntePro in inches – 96”) / 24”

**(h) Warp** is the height of the “hump” when an IntePro board is laid on a flat surface. The warp tolerance can be found out from the following table.

Length of IntePro is < 96”

Width of IntePro	0" to <24"	24" to <48"	48" to <60"	$\geq 60$ "
Warp Tolerance	< 1/4"	< 1/2"	< 1"	<1 1/4"

Length of IntePro is  $\geq 96$ ”

Width of IntePro	0" to <24"	24" to <48"	48" to <60"	$\geq 60$ "
Warp Tolerance	< (3/8"+1/8"xN*)	< (3/4"+1/4"xN*)	< (1 1/4"+1/4"xN*)	< (1 1/2"+ 1/4"xN*)

Note: N = (Length of IntePro in inches – 96”) / 24”

**(i) Shipment on Piece Count:** - 0%, + 5% of order piece quantity

Note: The information is based on our current knowledge and is subjected to change without notice.