



# PRO-Print<sup>®</sup> Synthetic Paper - Biodegradable

**DESCRIPTION:**

PRO-Print<sup>®</sup> is an extruded, mineral filled polypropylene sheet. It is available in white opaque with a matte/matte or gloss/matte finish.

**CHARACTERISTICS:**

- Easily printed using flexography, offset lithography, gravure and screen printing.
- Can be folded, hot stamped, embossed, die cut, riveted, stapled, and sewn.
- Environmentally friendly.
- Vacuum forming characteristics allow deep draw without excessive wall thinning and less “snap back” or post forming shrinkage.
- Better mold shape transferal and faster cycle times.
- Will biodegrade when disposed of in the natural environment (landfill or other microorganism-rich area as in ASTM D5209-91, ASTM D5338.98, and ASTM 5511). Expected range for this process is 9 months – 5 years.
- Any natural inorganic fillers like clay/calcium carbonate/talc/TiO<sub>2</sub> return back to the earth.
- Does NOT measurably biodegrade from conventional product usage in open air or storage.

**TECHNICAL DATA:**

PROPERTIES		10 MIL	15 MIL	TEST METHOD
THICKNESS ± 5% or .001 Maximum (whichever is greater)		.010"	.015"	T 411
GRAMMAGE BASIS WEIGHT		276 g / m <sup>2</sup> (56.5 lbs / 1000 ft <sup>2</sup> )	414 g / m <sup>2</sup> (84.8 lbs / 1000 ft <sup>2</sup> )	T 410
YIELD		2,600 in <sup>2</sup> / lb	1,725 in <sup>2</sup> / lb	
SPECIFIC GRAVITY		1.05 g / cm <sup>2</sup>	1.05 g / cm <sup>2</sup>	D 1505
TENSILE STRENGTH	MD	3400 psi	3000 psi	D 882
	TD	3000 psi	2400 psi	
ELONGATION	MD	550%		D 1938
	TD	500%		
TEAR RESISTANCE	MD	INITIATED 1 lbs	INITIATED 1.5 lbs	D 1938
	TD	4 lbs	6.5 lbs	
	MD	UNINITIATED 6.4 lbs	UNINITIATED 9 lbs	D 1004
	TD	8.0 lbs	12 lbs	
UNNOTCHED IZOD IMPACT*		NO BREAKS		D 256A
WETTING TENSION		40 dynes / cm <sup>2</sup>		T 698
HDT @ 264 psi *		145° F		D 648
STIFFNESS	MD	10 TABER UNITS	34 TABER UNITS	
	TD	13 TABER UNITS	44 TABER UNITS	

\* indicates data was obtained from molded samples only, in an unannealed state.

NOTE: All information, recommendations and suggestions contained herein, including, without limitations, stated values (collectively the "Information") shall be used only as a guide by Purchaser and not for specification or any other purpose. The Information does not constitute a warranty nor guaranty of any type whatsoever. Purchaser should independently determine the suitability of all material purchased and must confirm adaptability and other characteristics by conducting its own tests. Transilwrap shall have no liability as a result of any loss, expense, damage, cost or other injury which results from Purchaser's reliance on the Information.

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