

Ecoplast - Biodegradable High Impact Polystyrene

DESCRIPTION:

An economical rigid substrate available in sheets and rolls up to widths of 65". It is available in natural, white opaque, and white translucent. Custom colors available with special quote. Options available for High Impact Polystyrene include: super white opaque, dead white opaque, corona treatment, UVI inhibitors, and FDA approved resins.

CHARACTERISTICS:

- Superior ink receptivity using flexo, offset and screen processes.
- Excellent for display and P.O.P. applications.
- Can be guillotine cut, die cut, and punched.
- Excellent dimensional stability.
- Environmentally friendly.
- 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/TiO₂ return back to the earth.
- Does NOT measurably biodegrade from conventional product usage in open air or storage.

TECHNICAL DATA:

PROPERTIES		TYPICAL VALUES	TEST METHOD
THICKNESS ± 5% or .001 maximum (whichever is greater)		.010" to .125"	T 411
YIELD		2.75 MSI/lb @ .010"	T 410
SPECIFIC GRAVITY		1.03 g/cm ³	D 1505
TENSILE STRENGTH	MD	2700 psi	D882
	TD	3500 psi	
ELONGATION	MD	30 %	D882
	TD	50 %	
TEAR RESISTANCE @ .010"	MD	INITIATED .15 lbs	D1938
	TD	.39 lbs	
	MD	UNINITIATED 2.3 lbs	D 1004
	TD	3.1 lbs	
STIFFNESS @ .010"	MD	14.2 Taber Units	
	TD	15.6 Taber Units	
HDT @ 264 psi *		185° F	D648

* 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.