



POLY-BOND SPUNBONDED POLYPROPYLENE

- FACT SHEET -

STANDARD PRODUCTS (i.e. NO TREATMENTS)

FLAMMABILITY

- * Various representative samples of Poly-Bond standard spunbonded polypropylene and thermal laminates have been tested according to some or all of the following regulatory test methods, and have conformed to the applicable requirements. Results vary according to the particular product or test, and details can be obtained from the Quality Assurance Laboratory.

National Fire Protection Association Standard 260-1989
Chapter 4-1

National Fire Protection Association Standard 702-1975
Chapters 4 and 5

Code of Federal Regulations Title 16 Part 1610
(formerly CS 191-53)

Code of Federal Regulations Title 16 Part 1616
FF 5-74 and FF 3-71

Federal Aviation Administration Regulations for
Compartment Interiors, Para. 25.853 (b.2) App. F
and Para. 25.853 (a) App. F Part 1(a)(1)(ii).

UFAC Interior Fabrics Test

Motor Vehicle Safety Standard 302

SPECIAL TESTING

- * Representative samples of Poly-Bond products have been subjected to various test methods such as those listed below. Details are available in the Poly-Bond Special Testing Report.

Alcohol and saline repellency

Moisture vapor transmission

Water resistance

Static decay and surface resistivity

NOT anti static



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TOXICOLOGY

- * Polypropylene is biologically inert.
- * The ingredients used in Poly-Bond natural and white spunbonded polypropylene are in compliance with the FDA Code of Federal Regulations, Title 21 (rev. 4-1-91), Section 1520 of Subpart B, covering indirect food additives. This has been verified through our suppliers as well as through in-house laboratory testing. (Provided that the use of our product is not intended to accomplish any physical or technical effect in the food itself.)
- * Some of the pigments used to produce certain colors in spunbonded polypropylene contain heavy metals, and thus are not considered safe for food additive applications, direct or indirect. Therefore, the use of pigmented products, other than white, in food applications is not recommended.
- * Cytotoxicity (agarose overlay) and Primary Skin Irritation (Federal Hazardous Substances Act 16 CFR 1500) tests have been conducted on 0.5, 1.5 and 1.75 oz white Poly-Bond spunbonded polypropylene by independent, certified laboratories and have been found to be nontoxic and non-irritating. In addition, years of extensive use in products such as baby and adult diapers have confirmed that adverse effects on the skin should not be expected. Other medical tests have been conducted with select product samples and details are summarized in the Poly-Bond Special Testing Report.



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ENVIRONMENTAL

- * Although polypropylene is non-biodegradable, it will degrade in the presence of UV radiation (sunlight).
- * Polypropylene can be incinerated as a means of disposal, depending on government regulations. At temperatures above the flashpoint (600 F), degradation products include saturated and unsaturated hydrocarbons from C2 upwards. Oxygen lean conditions may produce carbon monoxide and smoke. The pigment used in producing white spunbonded polypropylene is not combustible, and therefore has no products of combustion.
- * Polypropylene spunbonded can be treated to enhance its stability during exposure to UV radiation. Products with no treatment degrade rapidly, within 160 hours of exposure for lightweight fabrics. The addition of stabilizer results in a degradation initiation time to between 320 - 500 hours for lightweights. Of course actual stability will depend on product weight and color (stability can be further enhanced with carbon-black pigments).
- * Polypropylene spunbonded as produced is odorless, regardless of color. Certain treatments, however, such as the addition of surfactants, will create a slight odor. In addition, polypropylene will, when exposed to gamma irradiation, produce a strong odor.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

POLY-BOND POLYPROPYLENE NONWOVENS

All weights and colors of untreated polypropylene fabric

CHEMICAL AND COMMON NAME

Polypropylene - family olefins

Poly-Bond™



APPEARANCE AND ODOR

Point bonded nonwoven fabric, white and *Navy*

No odor

II. HAZARDOUS INGREDIENTS & EXPOSURE LIMITS

As we interpret the OSHA Hazard Communication Standard, polypropylene nonwoven fabric is not a hazardous material. According to the Code of Federal Regulations Title 29, Chapter XVII, Part 1910, Subpart Z, Paragraph (b)(5), the OSHA Hazard Communications Program does not apply to "(IV) Articles". Nonwoven fabric exhibits performance parameters which meet all of the requirements as specified in the definition of an article. Therefore, the Hazard Communication Program does not apply to nonwoven fabric as an article.

FOOTNOTES

A more detailed disclosure will be provided to appropriate personnel as privileged information upon request, in case of need for a specific application.

III. TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT:	N/A	SOLUBILITY IN WATER:	Negligible
VAPOR PRESSURE (mmHg):	N/A	SPECIFIC GRAVITY:	0.88 - 0.92
VAPOR DENSITY:	N/A	EVAPORATION RATE:	N/A
VOLATILE (VOL) %:	Less than 0.4		

IV. FIRE, EXPLOSION, & REACTIVITY HAZARD DATA

FLASH POINT:	Above 650 degrees Fahrenheit
FLAMMABLE LIMITS:	N/A
AUTOIGNITION TEMPERATURE:	Greater than 700 degrees Fahrenheit
EXTINGUISHING MEDIA:	Agents approved for Class A fires
SPECIAL FIREFIGHTING PROCEDURES:	Standard procedures for Class A fires. Use water spray to cool fire-exposed surfaces. Protect personnel with usual precautions including use of self-contained breathing apparatus for smoke and oxygen depletion.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None identified
STABILITY CONSIDERATIONS:	None
INCOMPATIBILITY:	Avoid excessive heat, strong oxidizers, acids, and caustics.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Monoxide, carbon dioxide
HAZARDOUS POLYMERIZATION:	Will not occur

V. HEALTH HAZARD DATA

SIGNS AND SYMPTOMS OF OVEREXPOSURE IN THE WORKPLACE: None

EMERGENCY & FIRST AID PROCEDURES: None

VI. SPILL PROCEDURES & WASTE DISPOSAL

SPILL PROCEDURES: If material is not contaminated, return to proper package for use. If material is contaminated, place in proper container for disposal.

WASTE DISPOSAL METHOD: Sweep up waste fabric and recycle, incinerate or landfill in conformity to local disposal regulations.

VII. APPLICABLE CONTROL MEASURES

Store nonwoven fabric in a warehouse equipped with a sprinkler system. Do not store near flame, heat or strong oxidants, such as hot or concentrated nitric acid or fuming sulfuric acid, to name a few.

Safety glasses should be worn when performing any industrial operation.

VIII. IMPORTANT

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantees of results, and assume no liability for damage incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

TECHNICAL DATA

WEIGHT (Ozs./Sq. Yd.)	THICKNESS (mils)	TENSILE		ELONGATION		TRAPEZOID TEAR				AIR PERMEABILITY (Cu. Ft./Sq. Ft./Min.)	MULLEN BURST (PSI)
		MD (lbs)	CD (lbs)	MD (%)	CD (%)	MD		CD			
						PEAK (lbs)	AVG (lbs)	PEAK (lbs)	AVG (lbs)		
0.50	4.1	10.8	8.8	80.0	105.0	5.8	4.1	4.1	2.7	880.0	46.0
0.75	5.3	17.1	11.9	95.0	115.0	8.3	5.8	6.2	3.9	660.0	50.0
0.90	7.2	20.8	14.9	100.0	120.0	9.8	6.8	7.5	4.7	590.0	52.0
1.00	7.6	23.3	16.9	105.0	125.0	10.9	7.5	8.4	5.2	555.0	54.0
1.25	10.1	29.6	22.0	115.0	130.0	13.4	9.1	10.5	6.4	500.0	57.0
1.50	11.5	35.9	27.1	120.0	135.0	16.0	10.8	12.5	7.8	420.0	61.0
1.75	13.3	42.2	32.2	120.0	140.0	18.5	12.5	14.8	10.1	380.0	65.0
2.00	15.1	48.4	37.3	115.0	135.0	21.1	14.2	16.9	10.1	335.0	68.0
2.25	15.5	54.7	42.3	110.0	130.0	23.6	15.9	19.1	11.4	300.0	72.0
2.50	16.0	60.2	46.0	103.6	132.2	N/A	N/A	N/A	N/A	284.8	N/A
3.00	18.8	63.9	49.7	111.6	132.6	24.5	18.2	22.7	12.8	257.8	74.7
	ASTM D1910	ASTM D1682				ASTM D2263				ASTM D737-75	ASTM D3786-00A

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