

Tyvek® 1073B - Transition

Attribute	Test Method	Typical Value (US)	Typical Value (Int'l)
PHYSICAL			
Substrate basis weight*	ASTM D3776	2.2 oz/yd ²	74.7 g/m ²
Yield	Calculated	9,426 in ² /lb	13.4 m ² /kg
Thickness	ASTM D1777	7.8 mil	199 µm
MECHANICAL			
Tensile (MD)	EN ISO 1924-2	46 lb/in	205 N
Tensile (CD)	EN ISO 1924-2	49 lb/in	219 N
Elongation (MD)	EN ISO 1924-2	20%	20%
Elongation (CD)	EN ISO 1924-2	24%	24%
Elmendorf tear (MD)	ASTM D1424	0.7 /in	3.2 N
Elmendorf tear (CD)	ASTM D1424	0.9 lb/in	4.0 N
Mullen burst	ISO 2758	175 psi	1207 kPa
PERMEATION			
Porosity—Gurley	TAPPI T460	22 sec	—
Porosity—Bendtsen	ISO 5636-3	—	540 mL/min

This information describes typical product characteristics for customer evaluation. It is not intended to be a final specification or warranty of performance.

Description

Tyvek® is a medical packaging grade material for use in many applications. It is a spunbonded olefin that is manufactured from very fine continuous filaments of high-density polyethylene (HDPE) bonded together with heat and pressure. 1073B has outstanding microbial barrier characteristics and superior tear strength and puncture resistance.

Typical Application

This product is compatible with ethylene oxide (EO), gamma radiation, electron-beam radiation, and steam sterilization. It is the strongest form of Tyvek® and is recommended for sterile packaging of high-risk medical products.

Bio-compatibility

Tyvek® 1073B has been proven to be non-cytotoxic. Testing was conducted in accordance with ASTM F 2475-05, standard guide for bio-compatibility evaluation of medical device packaging materials, which includes ISO 10993-5 in-vitro cytotoxicity testing. Tyvek® 1073B has also passed SUP class VI testing for implantable plastics. Results available upon request.

Shelf Life

Accelerated aging studies conducted on this Dupont® product demonstrate a shelf stability of up to 5 years. Most packaging materials are designed for stability over long periods of time provided good storage and handling practices are exercised.

Storage Conditions

Keep product in original package. Product should be stored at ambient warehouse conditions.

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Note: Determination of the specific suitability of this product for individual applications is the sole responsibility of the purchaser. The information contained herein is correct to the best of our knowledge. Recommendations or suggestions are made without guarantee of representation as to results. Nothing in this disclosure of information shall be deemed by implication or otherwise to convey to the recipient of this information any rights under any patents, patent applications, trademarks, copyrights or invention owned by Oliver™ Healthcare Packaging.

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