

Preparation Time : 10-09-2022

Revision Date/Number : - / 0

TYVEK STERILIZATION POUCH AND REEL

Product Code : TYSR


- Properties : All printing is made inside the 11 mm sealing area to prevent pigment migration by using water based inks which are appropriate with EN 868-5,
- The product inside packaging can be seen easily because of transparent multi-layer co-polymer film.
 - High resistant, strengthened, non-toxic film.
 - Can be easily closed with any kind of set top closing device.
 - Appropriate to the norms of non-toxic process indicators ISO 11140.
 - Easily opening non-tearing with indicated opening direction.
 - Tyvek reels are used for ethylene oxide, gaz plazma (VH2O2) sterilization. The sterilization conditions should be determined by the end user regarding to material to be sterilized.

Material	Tyvek® Spunbonded Polyolefin 1059B		PeelMaster Item #	TY1059
Product Description	A Tyvek® product suitable for sealing to a variety of polymeric materials, providing required peel characteristics.			
FDA Status	All components of this product comply with the FDA regulations for materials used in food packaging. DMF & MAF numbers available for FDA reference upon request.			
Material Characteristics	TY1059B is a breather barrier for sterile packaging applications, with excellent strength, breatheability, sealability, and peelability.	Typical Applications	Typical medical packaging	
Physical Properties (Typical Values)				
Characteristic	Test Method	Units	Typical Values	
Total basis weight	ASTM D3776	oz./yd ²	1.90	
Thickness Range	ASTM D1777	mils	2.9 - 10.1	
Delamination	ASTM D2724	lb./in.	0.5 - 0.6	
Gurley Hill - Porosity	TAPPI T460	sec/100 cc	20 - 22	
Bendtsen Air Permeability	ISO 5636-3	mL/min.	557 - 671	
Microbial Barrier	ASTM F1608	Log Reduction Value (LRV)	>4	
Bendtsen Air Permeability	ISO 5636-3	mL/min.	557 - 671	
Hydrostatic Head	AATCC TM 127	in. H ₂ O	57 - 62	
Tensile Strength (MD)	ASTM D5035	lb./in.	38 - 43	
Tensile Strength (TD)	ASTM D5035	lb./in.	38 - 42	
Elongation (MD)	ASTM D5035	%	19	
Elongation (TD)	ASTM D5035	%	23	
Elmendorf Tear (MD)	ASTM D1424	lb.	0.6 - 0.7	
Elmendorf Tear (TD)	ASTM D1424	lb.	0.7 - 0.8	
Mullen Burst	ASTM D774	psi	150 - 153	
Spencer Puncture	ASTM D3420	In.-lb./in ²	39 - 44	
Opacity	TAPPI T425	%	89 - 92	

These physical properties listed above are typical and not specification limits. They are not meant for customer specifications development. Customers are solely responsible for determining the suitability of this product for their intended use.

Tyvek® is a registered trademark of DuPont.

Free from lead and heavy metals and toxic materials

LAMINATED FILM	PROPERTIES	UNIT	STANDART OR TEST METHOD	TYPICAL VALUE		
	THICKNESS	Micron	ASTM D 374	LAM. FILM	62 ± 5	
				PE	50 ± 5	
				BOPET	12 ± 2	
	COF	F / M	ASTM F 1894	0,30-0,35		
		M / M		0,35-0,40		
	THERMAL SEAL	°C	ASTM F 88	110 ± 5		
	TEAR	G	MD	D 1922	50 ± 5	
					TD	60 ± 5
	GLOSS	%	ASTMD 2457	60 ± 5		
			FREE FROM			
			-- <u>SOLVENTS</u>			
			-- <u>LEAD AND HEAVY METALS</u>			
			-- <u>TOXIC MATERIALS</u>			

PRODUCT SPECIFICATIONS

	PROPERTIES	UNIT	STANDARD OR TEST METHOD	TYPICAL VALUE	
	REEL	SEAL STRENGTH	cm	ASTM F 88	< 25
gr /15 mm) N			3,0 ± 0,5		4,0 ± 0,75
BUBBLE TEST			ASTM F 2096-04	None	
PINHOLE DETERMINATION			EN 868-5 Annex C	None	
DIMENSION CONTROL		cm or mm	ASTM F 2203-02	Desired Dimesions	
LEAKAGE TEST			ASTM F 1929-98	None	
PEEL DIRECTION			EN 868-5 Annex E	Must not break the particle	
INDICATOR CONTROL			ISO 11140-1	Must return the specified color	

INDICATOR	STERILIZATION METHOD	BEFORE STERILIZATION	AFTER STERILIZATION
	VH2O2	RED	BLUE