

**TECHNICAL DATA SHEET**

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'Securline REELS & POUCHES'

VERSION: V3PAGE: 1/2

DESCRIPTION:

E-LINE's Securline Reels and Pouches for the sterilization are made of a layer of uncoated Medical grade Paper 60gr, sealed to a layer of laminated film Pet 12 / Pp 40.

APPLICATIONS:

Our reels and pouches are suitable for packing medical devices that will undergo sterilization by steam or E.O. gas.

TECHNICAL SPECIFICATIONS:**RAW MATERIAL: MEDICAL PAPER 60gr.**

PROPERTIES	UNITS	STANDARDS	TYPIC
SUBSTANCE	g/m ²	ISO 536	60,00
BENDTSEN POROSITY	ml/mn	ISO 5636-3	1 000
AIR PERMEANCE	µm(Pa.s)	ISO 5636-3	11,40
BENDTSEN ROUGHNESS FS	ml/mn	ISO 8791-2	375
BENDTSEN ROUGHNESS WS	ml/mn	ISO 8791-2	375
PORE SIZE	µm	EN 868-2:2009(app. E)	21,0
THICKNESS	µm	ISO 534	83,0
TENSILE STRENGHT MD	kN/m	ISO 1924-2	6,40
TENSILE STRENGHT CD	kN/m	ISO 1924-2	3,40
WET TENSILE STRENGHT MD	kN/m	ISO 3781	2,10
WET TENSILE STRENGHT CD	kN/m	ISO 3781	1,10
BURST STRENGHT	kPa	ISO 2758	350
WET BURST	kPa	ISO 3689	150
TEARING STRENGHT MD	mN	ISO 1974	600
TEARING STRENGHT CD	mN	ISO 1974	650
COBB TEST (60 S)	g/m ²	ISO 535	15,0
WATER REPELLENCY	s	EN 868-2:2009(app. D)	35
FLUORESCENCE	pts/dm ²	EN 868-2:2009(app. B)	0,0

RAW MATERIAL: FILM PET 12 / PP 40 SHATTERLESS

It can be sterilized in sterilizations conditions up to 140°C

PROPERTIES	UNITS	METHOD	TYPIC
THICKNESS	µm	-	52
BASE WEIGHT	g/m ²	-	55
TENSILE STRENGTH	N/15mm	ASTMD 882	>40 MD >40 TD
ELONGATION AT BREAK	%	ASTM D 882	>160 MD >155 TD
WATER VAPOUR PERMEABILITY	g/m ² /24h	ASTM F 1249-38°C- 90% RH	6,0
OXYGEN PERMEABILITY	cc/m ² /24h	ASTM D 3985- 23°C- 0% RH	130

SEALING STRENGHT> 1.5n/15mm

PRINTING:

Chemical Indicators for STEAM and E.O.GAS are printed on our reels and pouches using water-based ink. The inks colours change after sterilization from *Green to Yellow* for E.O. gas and from *Pink to Brown* for Steam. E-line's Securline brand is printed on together with lot N., Product Code and conformity to regulations (plain or personalized reels & pouches also available).

CONFORMITY:

Our reels and pouches conform to regulations UNI EN 868:5, UNI EN ISO 11607:1-2 and ISO 11140-1. It is free from dirt, wooden fibers, toxic substances and odor.

SHELF-LIFE:

All our reels and pouches have a shelf-life of 5 years from production date, if stored correctly following Storage Conditions. Production Date and Expiry Date are printed on the label attached to every carton.

STORAGE CONDITIONS:

Temperature from 10-30°C
Relative Humidity 40-60%HR
Keep away from light, heat and humidity.

