

	Technical data sheet Pouches and tubes « e-line »	Ref : FT168	Version V7
		Date 23/05/2013	Page 1/1

DESCRIPTION

Pouches and tubes are made of one side uncoated paper and one side PET/PP sealed together. The paper is printed with ETO and steam indicators.

APPLICATIONS

Pouches and tubes are suitable for packaging of medical devices.
They are suitable for sterilisation by ETO gas or steam.(max 134° C).

TECHNICAL DESCRIPTION

1- Paper

Main properties	Method	Results
Base weight/ <i>Masse surfacique</i>	ISO 536	60 g/m ² (57-63)
Air permeance/ <i>Perméance à l'air</i> (Bendsten)	ISO 5636-3	8.0 µm/(Pa.s)- (5.1-10.8 µm/Pas)
Tensile strength/ <i>Résistance à la traction MD</i>	EN ISO 1924-2	6.1 kN/m (mini 4.4kN/m)
Tensile strength / <i>Résistance à la traction CD</i>	EN ISO 1924-2	3.3 kN/m (mini 2.2 kN/m)
Wet tensile strength/ <i>Résistance à la traction MD (humide)</i>	ISO 3781	2.1 kN/m (mini 0.9kN/m)
Wet tensile strength / <i>Résistance à la traction CD (humide)</i>	ISO 3781	1.3 kN/m (mini 0.45 kN/m)
Burst strength/ <i>Résistance à l'éclatement (sec)</i>	ISO 2758	320 kPa (mini 230kPa)
Wet burst strength/ <i>Résistance à l'éclatement (humide)</i>	ISO 3689	140 kPa (mini 70kPa)
Tear strength/ <i>Résistance au déchirement MD</i>	EN 21974	600 mN (mini 550mN)
Tear strength/ <i>Résistance au déchirement CD</i>	EN 21974	650 mN (mini 550mN)
Water repellency/ <i>Etanchéité à l'eau</i>	EN 868-3 (App A)	35 s (mini 20)
Cobb test/ <i>Cobb</i>	EN 20535	15 g/m ² (maxi 20g/m ²)
pH	ISO 6588	7 (5-8)
Chloride content/ <i>Teneur en chlorure</i>	ISO 9197-1	< 0.05%
Sulfate content/ <i>Teneur en sulfate</i>	ISO 9198	< 0.25%

2- PET/PP

Main properties	Method	Results
Thickness/ <i>Epaisseur</i>	-	54 µm ±10%
Base weight/ <i>Masse surfacique</i>	-	58 g/m ² ±10%
Water vapour permeability/ <i>Perméabilité à la vapeur d'eau</i>	ASTM F 1249- 38°C- 90% RH	6.0 g/m ² /24h
Oxygen permeability/ <i>Perméabilité à l'Oxygène</i>	ASTM D 3985- 23°C- 0% RH	125 cc/m ² /24h

FURTHER INFORMATION

Sealing strength> 1.5N/15mm

Indicator is in accordance with class I of standard ISO 11140-1 : 2005.

The film complies with the requirements of Food and Drug Administration (21CFR 177/1630; 21CFR175/105, 21CFR177/1520)
The pouches and tubes comply with standards ISO11607-1 and ISO11607-2.

STORAGE CONDITIONS

Temperature from 10-30°C
Relative Humidity 40-60%HR
Avoid direct exposition to light

This technical data sheet doesn't release from the responsibility to check the suitability of packaging material for the proposed application. This information may be subject to change without notice.