

TEST EVIDENCE	STANDARD SACK TWO PAPER PLIES	RAINSHIELD SACK TWO PAPER PLIES	STANDARD SACK TWO PAPER PLIES + 1 PE FILM WITH NO HOLES	RAINSHIELD SACK TWO PAPER PLIES + 1 PE FILM WITH NO HOLES	STANDARD SACK TWO PAPER PLIES + 1 PE FILM WITH HOLES	RAINSHIELD SACK TWO PAPER PLIES + 1 PE FILM WITH HOLES
WVTR Standard Condition (g/sqm in 24h)	660	3,5	3,7	1,6	23,1	4,7
WVTR Tropical Condition (g/sqm in 24h)	4300	27,5	24,5	12,2	145	34,1
	STANDARD SACK	RAINSHIELD SACK				
Cobb 60 (g/sqm)	30g	0				
Drop Test (from 60 cm)	3-4	15-20				

WVTR is the acronim for Water Vapor Trasmission Rate and refers to ASTM E96 - E96M - 16 // Cobb 60 is the water absorptiveness index and refers to UN-EN-ISO 535 // Drop Test refers to ISO 7965-1.

*The first test (WVTR 23°/50% ΔUR) is done under standard conditions: the Rainshield sack has a vapor permeability which is lower than the normal paper bag either without film (7 times less) or with film (14 times less).

**The second test (WVTR 38% 90% ΔUR) is done under severe and tropical conditions: the Rainshield sack has a permeability to water vapor which is lower than the normal paper bag either without film (5 times less) or with inner HDPE film (12 times less).

- The Rainshield sack is made by two or more paper plies. We laminate the outer ply using PE or PET according to the expected result.
- The air flows from the bottom patch and/or from the longitudinal seam, in order to avoid any inconvenient during the filling process.
- The Rainshield treatment is applied over the print and makes the bag very resistant to humidity and rain.
- The PET lamination is very glossy, the LDPE lamination has a matt effect.

KEY FEATURES

- + BAD WHEATHER RESISTANT
- + OUTSTANDING BARRIER EFFECT
- + GLOSS OR MATT FINISHING
- + HIGHER TEARING RESISTANCE
- + IMPROVING THE SHELF LIFE OF THE PRODUCT

UPGRADES+ HANDLE+ SEALING VALVE











MOISTSHIELD SACK

TECHNICAL SHEET

TEST EVIDENCE	STANDARD SACK (2 PLIES)	MOISTSHIELD SACK
Cobb 60 (g/sqm)	30g	5
<i>Gurley</i> Test	20	7200
WVTR Standard Condition (g/sqm in 24h)	578	93
WVTR Tropical Condition (g/sqm in 24h)	740	102

WVTR is the acronim for Water Vapor Trasmission Rate and refers to ASTM E96 - E96M - 16 // Cobb 60 is the water absorptiveness index and refers to UN-EN-ISO 535 // the Gurley Test detects the air permeability and refers to UN-ISO 5636-5.

• The MOISTSHIELD sack improves the moisture barrier even without plastic inside, becoming a sustainable product.

• Being part of the Hi-Tech Product Range of Fiorini Packaging, MOISTSHIELD gives hydrophobic properties to the surface of the sack: water will not be absorbed by the paper, but slip away.

- The Moistshield varnish applied on the outer ply gives hydrophobic properties to the whole sack.
- The bag is specifically designed to allow an adequate airflow through a gluing labyrinth, avoiding inconvenient related to the filling process.
- The Moistshield varnish is applied over the print and makes the bag resistant to humidity.

KEY FEATURES



- + MOIST PROTECTION + PLASTIC FREE
- + IMPROVING THE SHELF LIFE OF THE PRODUCT

UPGRADES

- + HANDLE
- + EASY OPEN SYSTEM
- + SEALING VALVE
- + ROLLED BOTTOM













TEST EVIDENCE	STANDARD SACK WITH FILM	STANDARD SACK WITHOUT FILM	GH₂OST SACK
WVTR Standard Condition (g/sqm in 24h)	32-32	153-168	97-109
WVTR Tropical Condition (g/sqm in 24h)	157-158	1033-1102	922-1033

WVTR is the acronym for Water Vapor Trasmission Rate and refers to ASTM E96 - E96M - 16.

PAPER STRENGHT (WHITE 70 G/SQM)	PAPER	PAPER + GH ₂ OST
TEA MD (j/sqm)	188	228
TEA CD (j/sqm)	219	262

TEA is the acronym for Tensile Energy Absorbtion and refers to UNI-EN-ISO 1924-3.

- Gh2ost is an exclusive registered patent by Fiorini Packaging which replaces the HDPE film with a hydrosoluble polymer.
- This polymer provides a barrier effect to the sack, protecting the product from the moisture. In the meantime, the sack remains fully recyclable and it dissolves in the mixer without leaving any trace of itself.
- Gh2ost is made by 2 white paper plies, enhancing the high quality of the print even if it is a compostable and water-soluble bag.
- Gh2ost is suitable also for food use.

KEY FEATURES

+ WATER-SOLUBLE PACKAGING
+ MOIST PROTECTION
+ COMPOSTABLE
+ FULLY RECYCLABLE





