

INSPECTA CERTIFICATE

No. 3663-02

Inspecta Certification has granted this certificate to

UPM-Kymmene Corporation Tervasaari Valkeakoski

The certificate verifies that the chain of custody of wood-based raw material complies with standards

PEFC COC:2006 (Technical Documentation Annex 4)
PEFC LOGO USE:2006 (Technical Documentation Annex 5)

Certification covers

Production of pulp and paper.

The certificate is valid on condition that the chain of custody remains in compliance with the aforementioned standards and the General Regulations ABC 750. The validity of the certificate can be checked on the Internet at www.sertifiointi.fi

The certificate is issued on 2008-06-11
(first issue 2006-06-02).

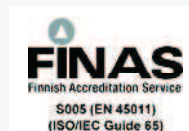
The certificate is valid until 2013-06-11.



Anne Qvintus, Managing Director



PEFC CHAIN OF CUSTODY



UPM SwanShine ribbed

Technical details for Tervasaari

Production Unit:	Tervasaari
Description:	UPM SwanShine ribbed- the choice for exclusive shopping. The ribbed felt mark gives the bag an attractive appearance.
Printing method:	Sheet fed offset, Flexo
End use:	Shopping bags
Furnish:	Northern softwood kraft pulp, Fillers
Finish:	Machine glazed
Wrapping:	Strong moisture proof polyethylene laminated kraft paper
Labels:	Two labels per reel
Certificates:	FDA Food Certificate, 94/62 EC Heavy Metal Certificate, PEFC Chain-of-Custody, ISO 9001, Food Approval Statement, EMAS, ISO 14001, BfR Food Certificate, European Eco-label

Trim Properties

	PM 7
Trimmed Width (cm)	484
Maximum reel width (cm)	310
Minimum reel width (cm)	15
Maximum reel diameter (cm)	148
Minimum reel diameter (cm)	60
Core options (mm)	70, 76, 153

Technical Target Values for Tervasaari

	60.0	70.0	80.0	90.0	100.0	110.0	120.0
Basis Weight (g/m ²)	60.0	70.0	80.0	90.0	100.0	110.0	120.0
Tear Index CD (mNm ² /g)	9.5	10	11.5	12	12	13	12.5
Tear Index MD (mNm ² /g)	7.5	8.5	10	10	10.5	11	11
Tensile Index MD (Nm/g)	75	75	75	70	70	65	65
Tensile Index CD (Nm/g)	33	33	33	31	31	28	28
Thickness (µm)	91	105	118	131	147	160	176
Burst Index (kPam ² /g)	3.3	3.3	3.3	3.3	3.3	3.3	3
Bulk (cm ³ /g)	1.52	1.5	1.47	1.47	1.47	1.47	1.47
CIE Whiteness (.)	135	135	135	135	135	135	135

