ANANAS ANAM

PIÑATEX Original – Technical Data Sheet

TESTED PROPERTY	TEST METHOD	RESULTS
Tear Strength	ISO 13937-1:2001	145 N Dir 1 89 N Dir 2
Tensile Strength	ISO 13934-1:2013	480 N Dir 1 500 N Dir 2
Seam Rupture	UNE-EN ISO 13935-2:2014	511 N Dir 1 355 N Dir 2
pH	UNE-EN ISO 3071:2021	5.9
Martindale	ISO 12947-4:2020; ISO 12947-2:2020	No specimen breakdown after 50K cycles using 12 kPa load. Moderate colour change after 15K cycles.
Bally Flexing	ISO 5402-1:2017	>20K cycles; no changes
Colour Fastness to rubbing cycles	IUF 450 - ISO 11640	4/5 for all
Colour Fastness to light	UNE-EN ISO 105-B02:2014 Xenon Light and Blue wool scale (BWS) (Minimum BWS5)	BWS 5
Water spotting	ISO 15700/ IUF420	5, no change
Formaldehyde	ISO 14184-1:2011	< DL (Not detected)
Phthalates	CPSC-CH-C1001-9.4	< DL (Not detected)
Chlorophenols	ISO 17070:2015	< DL (Not detected)
Organotin Compounds	ISO 22744	< DL (Not detected)
Aromatic amines from azo dyes	ISO 14362-1	< DL (Not detected)
Alkylphenols (AP)/ Alkylohenol Ethoxylates (APEO), Orthophenylphenol	ISO 21084	< DL (Not detected)
Carcinogenic, allergenic dyes compounds	DIN 54231:2005	< DL (Not detected)
PAHs Analysis	ISO/TS 16190:2013	< DL (Not detected)
Volatile Organic Compounds	CPSD-AN-00100-INTERNAL METHOND	< DL (Not detected)
Pesticides	CPSD-AN-00097-MTHD:2020-08	< DL (Not detected)
Flammability	16 CFR 1610	Conform to requirements

Test conducted at Buereau Veritas | Applied Mass Spectrometry Laboratory SLU, Lugo, Spain.
Piñatex complies with REACH and its Annex XVII regulation.
www.ananas-anam.com | info@ananas-anam.com | +34 937 99 8506

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PIÑATEX Original – Technical Data Sheet

Composition	72% Pineapple Leaf Fiber | 18% Polylactic Acid | 5% BIO PU | 5% PU
Density	0.27 g/cm^3
Thickness	1.6 ± 0.2 mm
Grammage	445 g/m^2
Usable Width	1.55 m
Care Instructions	 Wipe clean only.

ANANAS ANAM

PIÑATEX Mineral – Technical Data Sheet

TESTED PROPERTY	TEST METHOD	RESULTS
Tear Strength	ISO 13937-1:2001	145 N Dir 1 89 N Dir 2
Tensile Strength	ISO 13934-1:2013	480 N Dir 1 500 N Dir 2
Seam Rupture	UNE-EN ISO 13935-2:2014	511 N Dir 1 355 N Dir 2
pH	UNE-EN ISO 3071:2021	5.9
Martindale	ISO 12947-4:2020; ISO 12947-2:2020	No specimen breakdown after 50K cycles using 12 kPa load. Moderate colour change after 15K cycles.
Bally Flexing	ISO 5402-1:2017	>20K cycles; no changes
Colour Fastness to rubbing cycles	IUF 450 - ISO 11640	4/5 for all
Colour Fastness to light	UNE-EN ISO 105-B02:2014 Xenon Light and Blue wool scale (BWS) (Minimum BWS5)	BWS 5
Water spotting	ISO 15700/ IUF420	5, no change
Formaldehyde	ISO 14184-1:2011	< DL (Not detected)
Phthalates	CPSC-CH-C1001-9.4	< DL (Not detected)
Chlorophenols	ISO 17070:2015	< DL (Not detected)
Organotin Compounds	ISO 22744	< DL (Not detected)
Aromatic amines from azo dyes	ISO 14362-1	< DL (Not detected)
Alkylphenols (AP)/ Alkylohenol Ethoxylates (APEO), Orthophenylphenol	ISO 21084	< DL (Not detected)
Carcinogenic, allergenic dyes compounds	DIN 54231:2005	< DL (Not detected)
PAHs Analysis	ISO/TS 16190:2013	< DL (Not detected)
Volatile Organic Compounds	CPSD-AN-00100-INTERNAL METHOD	< DL (Not detected)
Pesticides	CPSD-AN-00097-MTHD:2020-08	< DL (Not detected)
Flammability	16 CFR 1610	Conform to requirements

Test conducted at Buereau Veritas | Applied Mass Spectrometry Laboratory SLU, Lugo, Spain.
Test conducted at Intertek | ITS Testing Services (UK) Limited, WN7 2RU, UK
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PIÑATEX Mineral – Technical Data Sheet

Composition	72% Pineapple Leaf Fiber | 18% Polylactic Acid | 5% BIO PU | 5% PU
Density	0.27 g/cm^3
Thickness	1.6 ± 0.2 mm
Grammage	445 g/m^2
Usable Width	1.55 m
Care Instructions	 Wipe clean only.

Test conducted at Buereau Veritas | Applied Mass Spectrometry Laboratory SLU, Lugo, Spain.
Test conducted at Intertek | ITS Testing Services (UK) Limited, WN7 2RU, UK
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PIÑATEX Metallic – Technical Data Sheet

TESTED PROPERTY	TEST METHOD	RESULTS
Tear Strength	ISO 13937-1:2001	133 N Dir 1 79 N Dir 2
Tensile Strength	ISO 13934-1:2013	380 N Dir 1 440 N Dir 2
pH	UNE-EN ISO 3071:2021	5
Martindale	ISO 12947-4:2020; ISO 12947-2:2020	No specimen breakdown after 50K cycles using 12 kPa load. Moderate colour change after 5K cycles.
Bally Flexing	ISO 5402-1:2017	>20K cycles; no changes
Formaldehyde	ISO 14184-1:2011	< DL (Not detected)
Phthalates	CPSC-CH-C1001-9.4	< DL (Not detected)
Chlorophenols	ISO 17070:2015	< DL (Not detected)
Organotin Compounds	ISO 22744	< DL (Not detected)
Aromatic amines from azo dyes	ISO 14362-1	< DL (Not detected)
Alkylphenols (AP)/ Alkylohenol Ethoxylates (APEO), Orthophenylphenol	ISO 21084	< DL (Not detected)
Carcinogenic, allergenic dyes compounds	DIN 54231:2005	< DL (Not detected)
PAHs Analysis	ISO/TS 16190:2013	< DL (Not detected)
Volatile Organic Compounds	CPSD-AN-00100-INTERNAL METHOD	< DL (Not detected)
Pesticides	CPSD-AN-00097-MTHD:2020-08	< DL (Not detected)
Flammability	16 CFR 1610	Conform to requirements

Composition	72% Pineapple Leaf Fiber | 18% Polylactic Acid | 10% PU
Density	0.35 g/cm^3
Thickness	1.4 ± 0.2 mm
Grammage	480 g/m^2
Usable Width	1.45 m
Care Instructions	 Wipe clean only.

Test conducted at Buereau Veritas | Applied Mass Spectrometry Laboratory SLU, Lugo, Spain.
Test conducted at Intertek | ITS Testing Services (UK) Limited, WN7 2RU, UK
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ANANAS ANAM

PIÑATEX Performance – Technical Data Sheet

TESTED PROPERTY	TEST METHOD	RESULTS
Tear Strength	ISO 13937-1:2001	226 N Dir 1 149 N Dir 2
Tensile Strength	ISO 13934-1:2013	520 N Dir 1 290 N Dir 2
Martindale	ISO 12947-4:2020; ISO 12947-2:2020	No specimen breakdown, after 50K cycles using 12 kPa
Bally Flexing	ISO 5402-1:2017	>150K cycles ; no changes
Finish adhesion	ISO 11644:2009	16 N/cm
Formaldehyde	ISO 14184-1:2011	< DL (Not detected)
Phthalates	CPSC-CH-C1001-9.4	< DL (Not detected)
Chlorophenols	ISO 17070:2015	< DL (Not detected)
Organotin Compounds	ISO 22744	< DL (Not detected)
Aromatic amines from azo dyes	ISO 14362-1	< DL (Not detected)
Alkylphenols (AP)/ Alkylohenol Ethoxylates (APEO), Orthophenylphenol	ISO 21084	< DL (Not detected)
Carcinogenic, allergenic dyes compounds	DIN 54231:2005	< DL (Not detected)
PAHs Analysis	ISO/TS 16190:2013	< DL (Not detected)
Volatile Organic Compounds	CPSD-AN-00100-INTERNAL METHOD	< DL (Not detected)
Pesticides	CPSD-AN-00097-MTHD:2020-08	< DL (Not detected)
Flammability	16 CFR 1610	Conform to requirements

Composition	46% Pineapple Leaf Fiber | 12% Polylactic Acid | 42% PU
Density	0.37 g/cm^3
Thickness	1.8 ± 0.2 mm
Grammage	685 g/m^2
Usable Width	1.45 m
Care Instructions	 Wipe clean only.

Test conducted at Buereau Veritas | Applied Mass Spectrometry Laboratory SLU, Lugo, Spain.
Test conducted at Intertek | ITS Testing Services (UK) Limited, WN7 2RU, UK
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PIÑATEX Light Midrib - Technical Data Sheet

TESTED PROPERTY	TEST METHOD	RESULTS
Tear Strength	ISO 13937-1:2001	45 N Dir 1 39 N Dir 2
Tensile Strength	ISO 13934-1:2013	280 N Dir 1 270 N Dir 2
Abrasion / Martindale	ISO12947-4:2020; ISO12947-2:2020	No specimen breakdown, after 300K
Bally Flexing	ISO 5402-1:2017	150K; no changes
Elasticity of Fabrics	UNE-EN ISO 20932-1	Warp recovery of 98.4% Weft recovery of 99%
Finish adhesion	ISO 11644:2009	23.7 N/cm
Formaldehyde	ISO 14184-1:2011	< DL (Not detected)
UV resistance	ES805-07012 ΔE section 6.6 Xenon + Q-UV	PASS ΔE < 4.0
Phthalates	CPSC-CH-C1001-9.4	< DL (Not detected)
Chlorophenols	ISO 17070:2015	< DL (Not detected)
Organotin Compounds	ISO 22744	< DL (Not detected)
Aromatic amines from azo dyes	ISO 14362-1	< DL (Not detected)
Alkylphenols (AP)/ Alkylohenol Ethoxylates (APEO), Orthophenylphenol	ISO 21084	< DL (Not detected)
Carcinogenic, allergenic dyes compounds	DIN 54231:2005	< DL (Not detected)
PAHs Analysis	ISO/TS 16190:2013	< DL (Not detected)
Volatile Organic Compounds	CPSD-AN-00100-INTERNAL METHOND	< DL (Not detected)
Pesticides	CPSD-AN-00097-MTHD:2020-08	< LOQ (Limit of quantification)
Flammability	16 CFR 1610	Conform to requirements

Composition	39% PIÑAYARN | 8% Bio-based PU | 53% PU
Density	0.48 g/cm^3
Thickness	1.1 ± 0.1 mm
Grammage	480 g/m^2
Usable Width	1.45 m
Care Instructions	

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PIÑATEX Light Velvet Technical Data Sheet

TESTED PROPERTY	TEST METHOD	RESULTS
Tear Strength	ISO 9073-4: 2021	84 N Dir 1 154 N Dir 2
Tensile Strength	ISO13934-1	448 N Dir 1 237 N Dir 2
Abrasion/Martindale	ISO 12947-4:2020; ISO 12947-2:2020	Specimen starts to breakdown after 100K cycles using 12 kPa load, Slight surface change at 10K cycles
Bally Flexing	ISO 5402-1:2017	Fine cracks after 50K revs; Slight change at 10K revs
Elasticity of Fabrics	UNE-EN ISO 20932-1	Warp recovery of 94.8% Weft recovery of 95.2%
Finish adhesion	ISO 2411:2017	Warp direction 3.1 N/cm, Weft direction 2.2 N/cm

Composition	46% Piñayarn | 40% Bio-based PU | 14% PU
Density	0.48 g/cm^3
Thickness	1.2 ± 0.1 mm
Grammage	578 g/m^2
Usable Width	1.40 m
Care Instructions	 Wipe clean only.