CTIC Centro Tecnológico das Indústrias do Couro

IPAC acreditação L0185 Ensaios

Laboratory

CURTUMES AVENEDA, LDA.
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Test Report nr. 2019/04099 **Version 2** **Final Report**

Material:	Leather	Received on:	24-06-2019
Sampling:	Unknown* (Sampled by: Client)	Beginning of testing:	25-06-2019
Sample Nr.:	1903323	Finish of testing:	18-07-2019
Client's Ref.:	Forro beige (ABN-005)		

Chemical Analysis Laboratory

Tests made / Method(s) of Testing	Results	Units
Total Metals		
Total aluminum (Al)*## ISO 17072-2:2011	67	mg/kg
Total antimony (Sb)*## ISO 17072-2:2011	< 10	mg/kg
Total arsenic (As)*## ISO 17072-2:2011	< 5	mg/kg
Total cadmium (Cd)*## ISO 17072-2:2011	< 1	mg/kg
Total lead (Pb)*## ISO 17072-2:2011	< 5	mg/kg
Total cobalt((Co)*## ISO 17072-2:2011	< 1	mg/kg
Total chromium (Cr)*## ISO 17072-2:2011	31	mg/kg
Total mercury (Hg)*## ISO 17072-2:2011	< 5	mg/kg
Total nickel (Ni)*## ISO 17072-2:2011	< 5	mg/kg
Total titanium (Ti)*## ISO 17072-2:2011	< 25	mg/kg
Total zirconium (Zr)*## ISO 17072-2:2011	< 1	mg/kg
Azo Dyes		
Azo Dyes (REACH) *# ISO 17234-1:2015	< 30	mg/kg
Chlorophenols		
Pentachlorophenol (PCP)*# ISO 17070:2015	< 2	mg/kg

The original of this testing report is only valid when validated with CTIC's white seal.

* - The signed test is not included in the CTIC certification scope. # - The signed test was subcontracted and it is certified. ## - The signed test was subcontracted and it is not certified. " < x (LQ)" : Result considered inferior to the quantification limit (x). " < x (LD)" : Result considered inferior to the detection limit (x).

The results contained in this report refer only to tests carried out on samples as received at the laboratory. Reproduction of this report, except in full, without prior authorization is prohibited.

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Test Report nr. 2019/04099 **Version 1** **Final Report**

Chemical Analysis Laboratory

Tests made / Method(s) of Testing	Results	Units
Chlorinated Paraffins		
Short Chain Chlorinated Paraffins*# ISO 18219:2015	< 50	mg/kg
pH Value		
Difference Index ISO 4045:2018 - IULTCS/IUC 11:2018	0,35	---
pH Value ISO 4045:2018 - IULTCS/IUC 11:2018	3,90	---
Hexavalent Chromium ISO 17075-1:2017 - IULTCS/IUC 18-1:2017	< 3	mg/kg
Disintegration degree * Método Interno (Baseado na ISO 20200)	100 % after 11 days	---
Formaldehyde ISO 17226-1:2008 - IULTCS/IUC 19-1:2008	< 5	mg/kg

Moisture: 10,7%
PConditioning*: According to ISO 4044:2017, part 6.3 for Hexavalent Chromium test, 6.2 for the rest.

Aromatic amines prohibited by REACH: 4-aminodifenilo (CAS: 92-67-1); Benzidina (CAS: 92-87-5); 2-amino-4-nitrotolueno (CAS: 99-55-8); 4-cloro-orto-toluidina (CAS: 5-69-2);2-naftilamina (CAS: 91-59-8); 4-cloroanilina (CAS: 106-47-8); 4-metoxy-1,3-fenilenodiamina (CAS: 615-05-4); 4,4´-diamiodifenilmetano (CAS: 101-77-9); 3,3´-diclorobenzidina (CAS: 91-94-1); 3,3´-dianisidina (CAS: 119-90-4); o-tolidina (CAS: 119-93-7); 4,4´-diamino-3,3´-dimetildifenilmetano (CAS: 838-88-0); p-cresidina (CAS: 120-71-8); 4,4´-diamino-3,3´-diclorodifenilmetano (CAS: 101-14-4); 4,4´-diaminodifenileter (CAS: 101-80-4); 4,4´- tiodianilina (CAS: 139-65-1); o-toluidina (CAS: 95-53-4); 2,4´ - diaminotolueno (CAS: 95-80-7); 2,4,5´-trimetilanilina (CAS: 137-17-7); o-aminoazotolueno (CAS: 97-56-3); o-anisidina (CAS: 90-04-0); 4-aminoazobenzeno (CAS: 60-09-3); 2,4-xilidina (CAS: 95-68-1); 2,6-xilidina (CAS: 87-62-7)

In the disintegration test, the synthetic compound was prepared according to the test standard description, having the following characteristics:
C/N Ratio = 28,8
Dry matter = 46,3%
pH Value = 7,5
Characteristics of the synthetic compound after testing:
C/N Ratio = 23,9
Dry matter = 39,9%
pH Value = 8,0

Alcanena, 22nd July 2019

Chemical Analysis Laboratory Responsible

João Pinto Figueiredo

Dr. João Pinto Figueiredo

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