

Doc Ref: FCS

## RECTALEEN SPECIFICATION SHEET

### 200mym ETON EMBOSS DOTP Plain & Coloured PVC

FLEXIBLE ETON EMBOSSSED PVC

Thickness (mym) 205mym 180S.G. -0/+ 7.5%

Plasticiser DOTP

Handle (phr) 51 +/- 1

Cold Crack (°C) -28MAX\*\* BS2782-1 Method 150D:1976

#### General Properties

#### DOES NOT CONTAIN:

DEHP – di-ethylhexyl phthalate, DBP – Dibutyl phthalate, BBP – benzyl butyl phthalate, DINP – di-isononyl phthalate, DIDP – di-isodecyl phthalate, DNOP – di-n-octyl phthalate

European Guideline 2002/95/EC(RoHS) and are free of Cadmium, Lead, Lead Chromate, Mercury, PBB & PBDE categories

#### Physical Properties

#### End Use

**Textured PVC, suitable for use in children's toys**

**Available from stock in a range of colours. Slitting, Guillotine, Pressing, Converting Service also available**

#### CONTACT SALES OR TECHNICAL DEPARTMENT IN CASE OF QUERIES

*All above information shall only be used as a guide; buyers shall independently test and determine the products suitability.*

*The mentioned data are average of test results and should not be used for the purpose of lawsuit or warranty.*

*e-mail: sales@flexr.co.uk Telephone: 01282 478222 Fax: 01282 478210 Website: www.flexr.co.uk*

## Test Report

Job No./Report No TR1810872

Date: 14 October 2020

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The following sample(s) was (were) submitted and identified by/on behalf of the client as:

| Sample No. | Sample Description               |
|------------|----------------------------------|
| A          | FILM PVC DOTP OF A2523702-LIENZO |

Client's reference No. : TR 1810872  
 Colour : White  
 Article No. : A2523702  
 Buyer : FLEXIBLE REINFORCEMENTS  
 Country of Destination : ENGLAND  
 Sample Receiving Date : 9 October 2020  
 Test Performing Period : 9 October 2020 ~ 14 October 2020

**Overall Conclusion** : **PASS**

Test Results : Please refer to the next page(s).

**Performed Test Summary:** Selected test(s) as requested by client against Client's performance standard.

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| Test Parameters                              | Result    |
|--|-----------|
| <b>Chemical tests</b>                        | <b>A1</b> |
| Free Formaldehyde in Textile                 | M         |
| Phthalates                                   | M         |
| Migration of Certain Elements - Category III | M         |

|         |   |  |
|---------|---|--|
| Remarks | :   | M = Meets client's requirement<br>F = Exceed client's requirement<br>I = Inconclusive<br>* = No specified requirement<br># = See individual result: Result over 1/2 or 1/3 of client requirement. There is a possibility of failure on one or more components. Retesting on individual component <u>has been carried out</u> as requested to determine the compliance of each component to the requirement |
|         |   | The sample is not submitted in polyethylene bag and wrapped in aluminium foil.   |
| Notes:  | Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).               |  |
|         | The composite sampling method is based on the client's special request and is a modification from the testing standard. |  |
|         | Residual sample can be returned to client if requested.   |  |

The test results relate to the tested items only.  
Test reports without SGS seal and authorised signatures are invalid.

Mert Kurtuluş  
Customer Services Supervisor

Bora Şirinbilek  
Hardline & CPCH Testing Services Manager




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### Component List / List of Materials for Chemical Test

| Sample No. | Sample Description                  | Material No. | Component | Material | Colour |
|------------|-------------------------------------|--------------|-----------|----------|--------|
| A          | FILM PVC DOTP OF<br>A2523702-LIENZO | A1           | Main      | Plastic  | White  |

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### Free Formaldehyde<sup>1</sup>

Test Method: With reference to ISO 14184-1:2011 (Water Extraction Method) - Analysis by UV-VIS Spectrophotometer  
Calibration range: 0.15 mg/L - 6.00 mg/L

Formaldehyde Content

**A1**

n.d.

**Conclusion**

**Pass**

#### Note(s):

\*Composite test has been performed as per the special request of client

n.d. = not detected

Detection Limit = 16 mg/kg

**Requirement by the client=** Max. 30 mg/kg

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### Phthalates<sup>1</sup>

**Test Method:** With reference to EN 14372:2004 - Analysis by GC-MS

| <u>Component</u>                    | <u>Cas No</u> | <u>Result(s) (mg/kg)</u> |
|-------------------------------------|---------------|--------------------------|
| Dibutyl Phthalate (DBP)             | 84-74-2       | n.d.                     |
| Benzylbutyl Phthalate (BBP)         | 85-68-7       | n.d.                     |
| Bis-(2-ethylhexyl) Phthalate (DEHP) | 117-81-7      | n.d.                     |
| Di-iso-butyl Phthalate (DIBP)       | 84-69-5       | n.d.                     |
| Total (DBP+BBP+DEHP+DIBP)           |               | n.d.                     |
| <b>Conclusion</b>                   |               | <b>Pass</b>              |

| <u>Component</u>            | <u>Cas No</u> | <u>Result(s) (mg/kg)</u> |
|-----------------------------|---------------|--------------------------|
| Diisononyl Phthalate (DINP) | 28553-12-0    | n.d.                     |
| Di-n-octyl Phthalate (DNOP) | 117-84-0      | n.d.                     |
| Diisodecyl Phthalate (DIDP) | 26761-40-0    | n.d.                     |
| Total (DINP+DNOP+DIDP)      |               | n.d.                     |
| <b>Conclusion</b>           |               | <b>Pass</b>              |

**Note(s) :**

n.d. : not detected

1% : 10000 mg/kg

mg/kg : miligrams per kilograms

**Detection Limit(s) :** For DBP, BBP, DEHP, DIBP and DNOP: 0,003%, For DINP, DIDP: 0,01% (for individual compound)

**Permissible Limit(s) :** 0,1 % for Total (DBP+BBP+DEHP+DIBP)  
0,1 % for Total (DINP+DNOP+DIDP)

**Remark(s) :**

Permissible limit is according to entry 51 of Regulation (EU) 2018/2005 and entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

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**Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 - EN71-3: 2019 – Migration of certain elements<sup>1</sup>**
Category III: Scrapped-off toy material

Method : With reference to EN71-3:2019. Analysis of general elements was performed by ICP-OES.

| Test Item                                      | Result (mg/kg) |  | Reporting Limit (mg/kg) | Permissible Limit (EN71-3:2019) (mg/kg) |
|--|----------------|--|-------------------------|---|
|  | <b>A1</b>      |  |                         |   |
| Mass of trace amount (mg)                      | --             |  | --                      | --                                      |
| Soluble Aluminium (Al)                         | ND             |  | 50                      | 70,000                                  |
| Soluble Antimony (Sb)                          | ND             |  | 10                      | 560                                     |
| Soluble Arsenic (As)                           | ND             |  | 10                      | 47                                      |
| Soluble Barium (Ba)                            | ND             |  | 50                      | 18,750                                  |
| Soluble Boron (B)                              | ND             |  | 50                      | 15,000                                  |
| Soluble Cadmium (Cd)                           | ND             |  | 5                       | 17                                      |
| Soluble Chromium (Cr)                          | ND             |  | 0.053                   | --                                      |
| Soluble Chromium (III) <sup>#</sup> (Cr (III)) | --             |  | 5                       | 460                                     |
| Soluble Chromium (VI) <sup>#</sup> (Cr (VI))   | --             |  | 0.053                   | 0.053                                   |
| Soluble Cobalt (Co)                            | ND             |  | 10                      | 130                                     |
| Soluble Copper (Cu)                            | ND             |  | 50                      | 7,700                                   |
| Soluble Lead (Pb)                              | ND             |  | 10                      | 23                                      |
| Soluble Manganese (Mn)                         | ND             |  | 50                      | 15,000                                  |
| Soluble Mercury (Hg)                           | ND             |  | 10                      | 94                                      |
| Soluble Nickel (Ni)                            | ND             |  | 10                      | 930                                     |
| Soluble Selenium (Se)                          | ND             |  | 10                      | 460                                     |
| Soluble Strontium (Sr)                         | ND             |  | 50                      | 56,000                                  |
| Soluble Tin (Sn)                               | ND             |  | 4.9                     | 180,000                                 |
| Soluble Organic Tin <sup>^</sup>               | --             |  | --                      | 12                                      |
| Soluble Zinc (Zn)                              | ND             |  | 50                      | 46,000                                  |
| <b>Conclusion</b>                              | <b>PASS</b>    |  | --                      | --                                      |

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Note : - mg/kg = milligram per kilogram  
 - ND = Not Detected  
 - 1% = 10000 mg/kg = 10000 ppm

- # The test result of soluble chromium (III) and chromium (VI) were derived from soluble chromium screening and then confirmation test for soluble chromium (III) and soluble Chromium (VI) on component with soluble chromium exceeding the screening limit of 0.053 mg/kg soluble Cr.
- ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.

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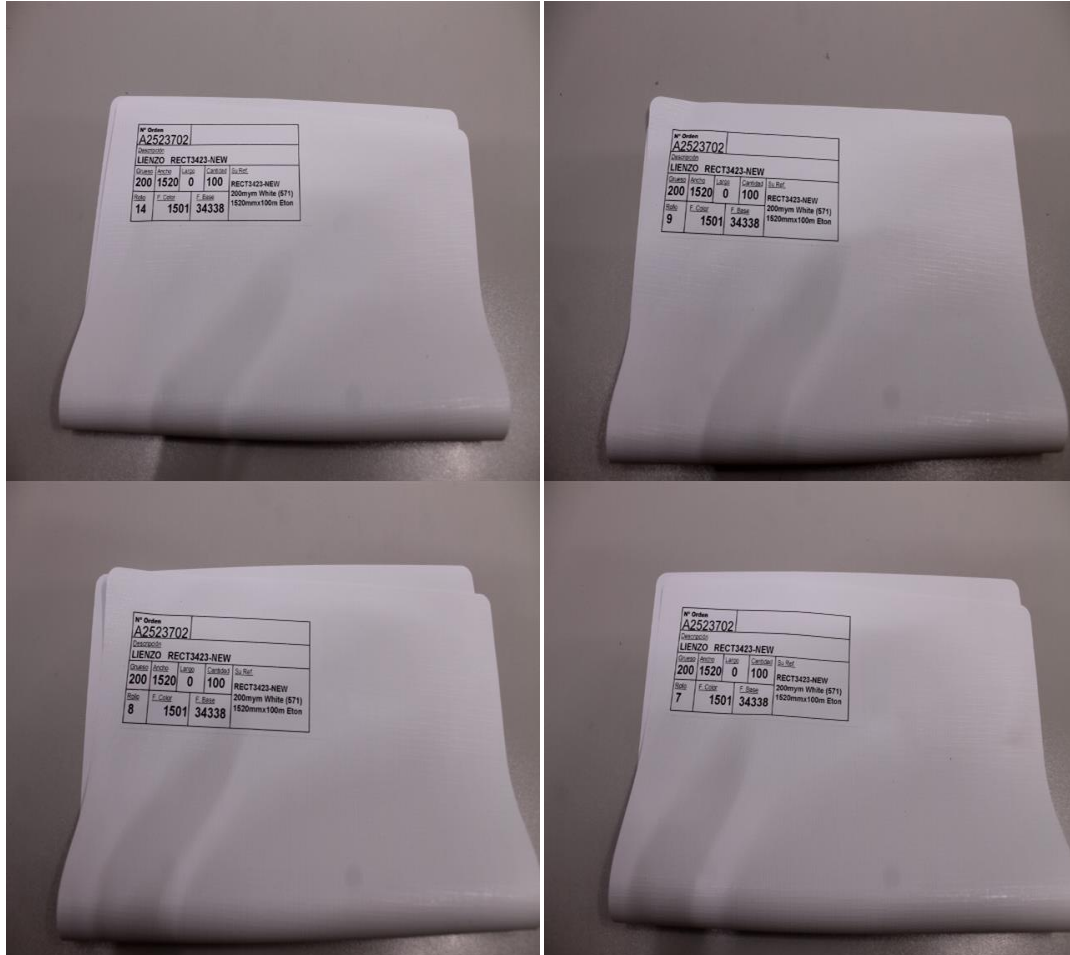


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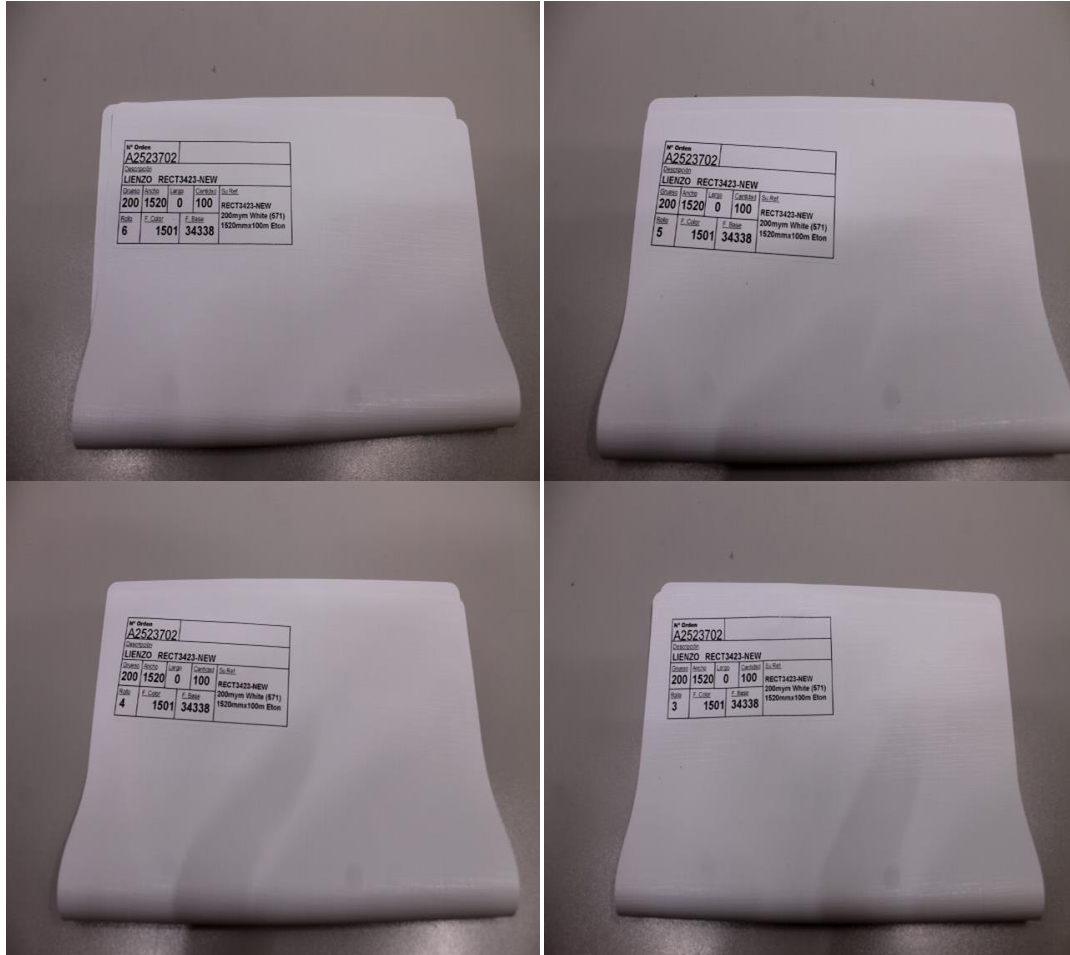
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End of Test Report

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