

Doc Ref: FCS

RECTALEEN SPECIFICATION SHEET

200mym ETON EMBOSS DOTP Plain & Coloured PVC

FLEXIBLE ETON EMBOSSED 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
Chemical tests	A1
Free Formaldehyde in Textile	M
Phthalates	M
Migration of Certain Elements - Category III	M

Remarks	:	M = Meets client's requirement F = Exceed client's requirement I = Inconclusive * = No specified requirement # = 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.

Issued in Istanbul
Signed for and on behalf of
SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

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 A2523702-LIENZO	A1	Main	Plastic	White

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Free Formaldehyde¹

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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Phthalates¹

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	<u>A1</u> 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.
Conclusion		Pass

<u>Component</u>	<u>Cas No</u>	<u>Result(s) (mg/kg)</u>
Diisononyl Phthalate (DINP)	28553-12-0	<u>A1</u> 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.
Conclusion		Pass

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 elements¹
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)
	A1			
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) [#] (Cr (III))	--		5	460
Soluble Chromium (VI) [#] (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 [^]	--		--	12
Soluble Zinc (Zn)	ND		50	46,000
Conclusion	PASS		--	--

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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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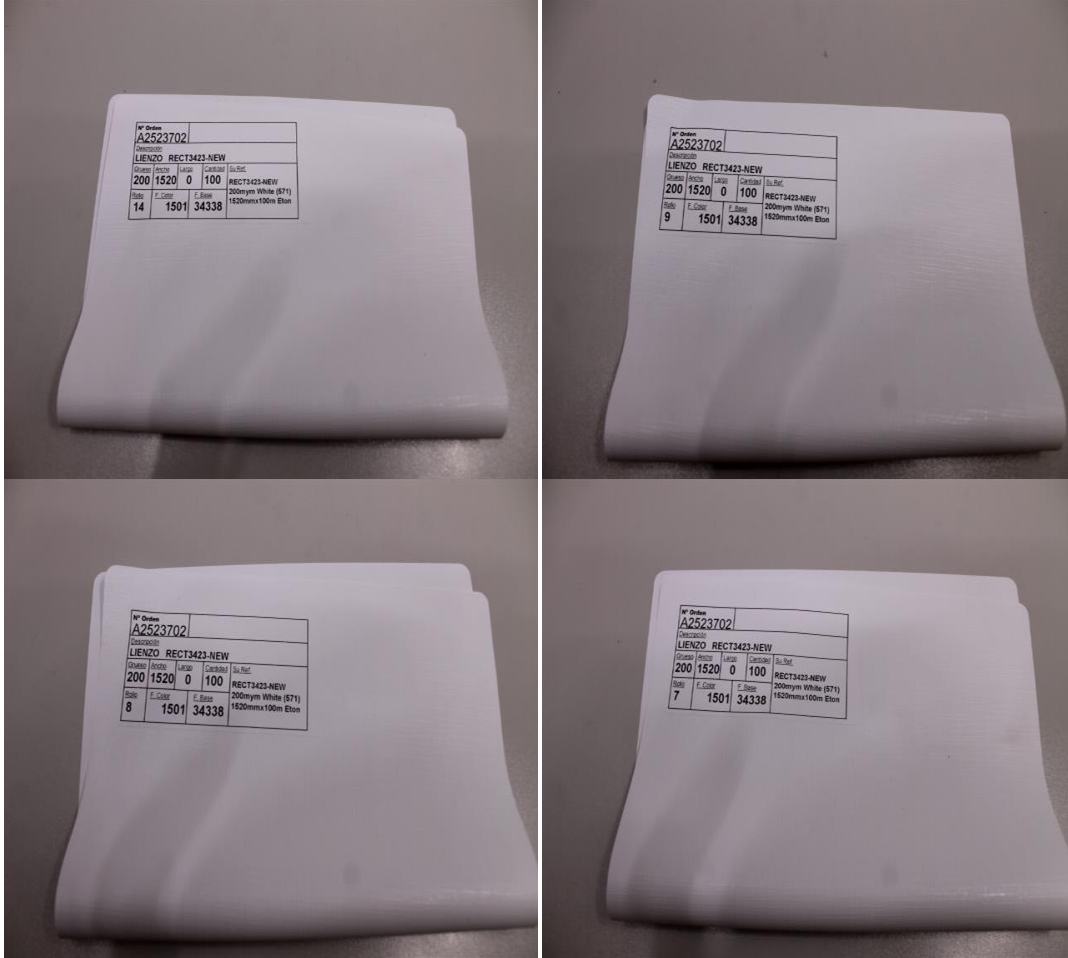
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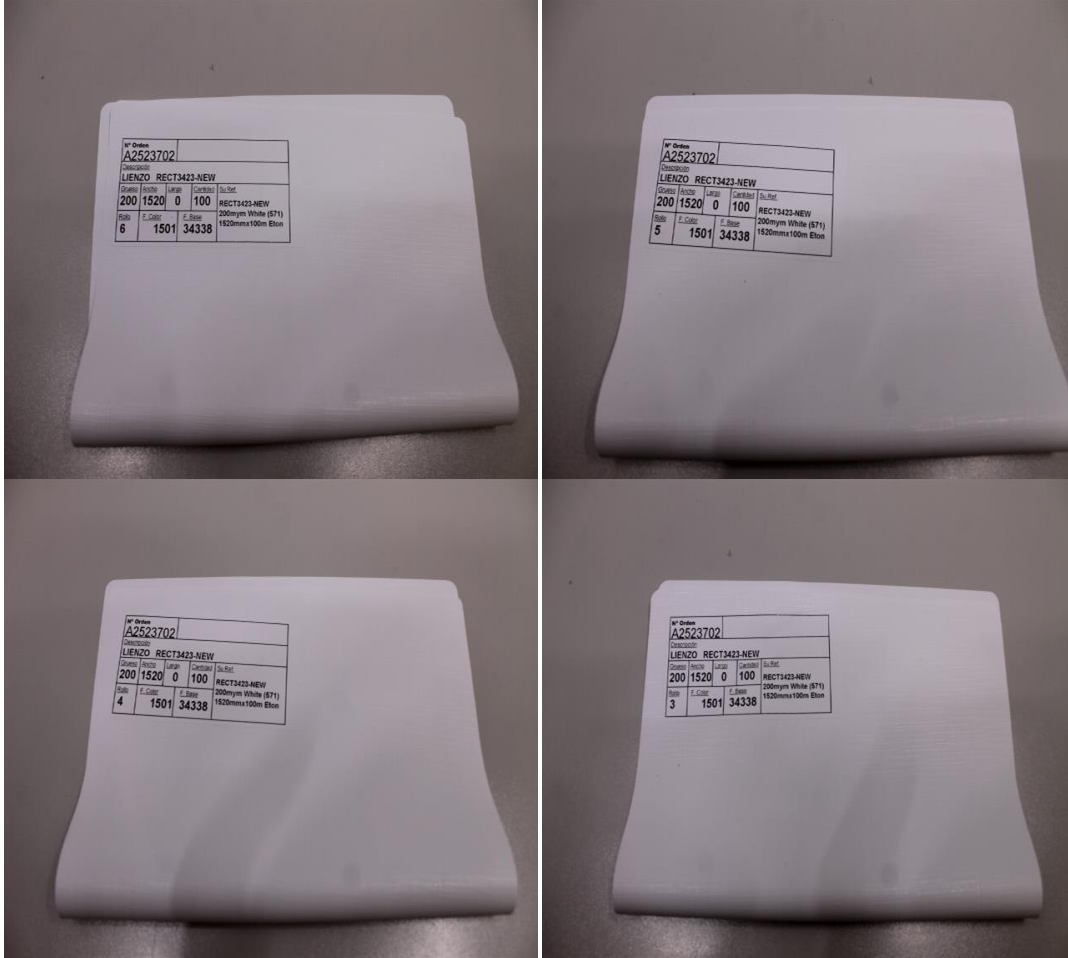
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End of Test Report

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