

**TEST REPORT**

**Report No. : MAN:HL:7480006719**

**DATE : 12<sup>th</sup> July, 2016**



**RATTAN BROTHERS**

PLOT NO- 412-413, LEATHER COMPLEX KAPURTHALA ROAD  
JALANDHAR-144021  
INDIA

**CONTACT PERSON : MR. ANURAG KHINDER**

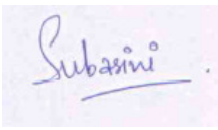
**THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :**

**SAMPLE DESCRIPTION** GENEX RUGBY BALL MADE OF RUBBER  
**SAMPLE RECD ON** 02/07/2016  
**TEST PERFORMING DATE** 02/07/2016 TO 12/07/2016

**TEST REQUESTED**

TEST NAME	CONCLUSION
1.European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments as specified by client Cadmium content(on client's selected component)	Pass
2. Organo Tin Compounds (OTC)	Pass
3.Phthalate Content	Pass

**Per Pro SGS India Pvt Ltd.**



**Subasini Saraswat**

**Asst. Manager**

Email your Test Report Related Enquiries at Feedback.HLT@sgs.com

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**Test Results:**

**1. Cadmium content:**

**Method :** SGS- Microwave Digestion –Analysis was performed by ICP-OES.

Test Item	Result (ppm)	Permissible Limit (%)
		0.01%(100 ppm)
Cadmium (Cd)	ND	
<b>Comment</b>	PASS	--

**Sample description :** GENEX RUGBY BALL MADE OF RUBBER

**Note:**

1. % = percentage by weight
2. ND = Not Detected , Detection limit = 10ppm
3. Permissible Limit specified by Commission Regulation (EU) No 494/2011 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC)
4. Testing has been performed on client's selected components.

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**2. ORGANO TIN COMPOUNDS**

**DIN EN ISO 17353:2004// Analysis by GC- MS**

<b>Organotin</b>	<b>Result (% by weight of tin)</b>	<b>Recommended Max. Limit (% by weight of tin)</b>
	<b>1</b>	---
Tributyltin (TBT)	n.d.	---
Triphenyltin (TPhT)	n.d.	---
Tricyclohexyltin (TCyT)	n.d.	---
Tripropyltin (TPT)	n.d.	---
Total	n.d.	0.1
<b>Conclusion</b>	Pass	---

<b>Organotin</b>	<b>Result (% by weight of tin)</b>	<b>Recommended Max. Limit (% by weight of tin)</b>
	<b>1</b>	
Dibutyltin (DBT)	n.d.	0.1
Diocetyl tin (DOT)	n.d.	0.1
<b>Conclusion</b>	Pass	---

**Sample Description:** GENEX RUGBY BALL MADE OF RUBBER (Print with base)

**Note:**

1. ppm = parts per million
2. ND = Not Detected , DL= Detection Limit=0.00005 %
3. Above test has been subcontracted to SGS approved lab.
4. Testing has been performed as per client's request.

**Remark:** Recommended Max Limit with reference to Entries 20 of Regulation (EC) No 276-2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under EU Decision: 2009/425/EC)

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### 3. PHTHALATES

European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments

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

Test item	Results (%)	Permissible Limit
Dibutyl Phthalate (DBP)	ND	<0.1%
Benzylbutyl Phthalate (BBP)	ND	<0.1%
Bis-(2-ethylhexyl) Phthalate (DEHP)	ND	<0.1%
Diisononyl Phthalate (DINP)	ND	<0.1%
Di-n-octyl Phthalate (DNOP)	ND	<0.1%
Diisodecyl Phthalate (DIDP)	ND	<0.1%
<b>Conclusion</b>	<b>PASS</b>	--

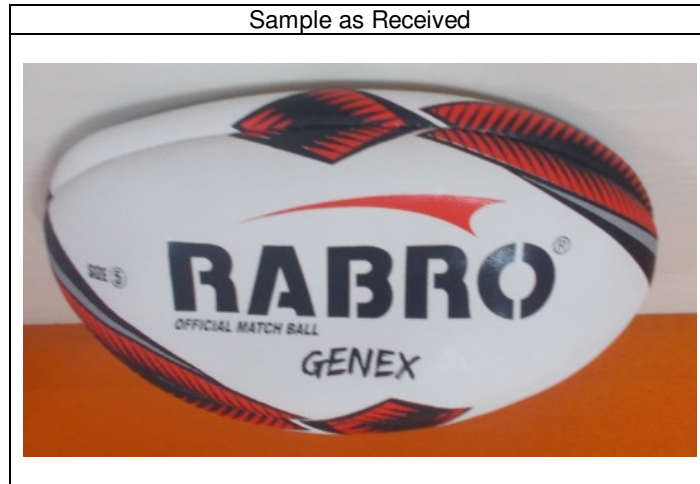
**Sample Description :** 1. GENEX RUGBY BALL MADE OF RUBBER

**Note:**

- 1) ND = not detected
- 2) < = Less than
- 3) % = percentage by weight
- 4) Detection Limit:  
DBP, BBP, DEHP And DNOP = 0.005% (For Individual Compound)  
DINP And DIDP = 0.01 % (For Individual Compound)
- 5) Testing has been performed as per client's request.

**Remark:**

Permissible limit specified by entries 51 and 52 of regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).



\*\*\*\*\* End of Report\*\*\*\*\*