#### ShenZhen DengFu Sports Equipment Co.,Ltd

### Frame ISO4210 Test Report



## 深圳市登富体育用品有限公司

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### 物性測試報告 TEST REPORT OF PHYSICAL PROPERTY

測 試 編 號 Frame-0001 PROJECT NO.: 試 期 測  $\boldsymbol{\mathsf{B}}$ 2018.05.10 TEST DATE: 部 門 測 委 开发 **ENTRUST TEST DEPT.:** 產 品 型 號 **M08** PRODUCT TYPE:

測試目的:TESTPURPOSE:

物性测试 Physical Property

1. 產品由申請人提供,本實驗室測試,測試結果詳見內頁。

Products sent by applicant have been tested by our laboratory. The test result is included in this test report.

2. 本報告結果僅對申請人所送樣品有效。

This report is responsible for sample only, not for the use of suit.

3. 未經本部門同意不得隨意複製此報告。

This test report contains (3) pages, it can not be abstracted and copied separately.

4. 報告兩份副本,一份申請者,原件品管課存檔。

This report has two copies, one for applicant and another reserves in laboratory.

核 准 :	審核:	試 驗 者:
Approve:	Verify:	Inspector:

# SHENZHEN BLUE LINGHT CARBON TECHNOLOGY CO.,LTD Frame ISO4210 Test Report

✓ I	SO4210												
Customer/Supplier:					Test Report N°: Test Date: 2018.05.10								
Fram	e/Item N: M08	Issue Date:			: 201	8.05.10							
Part 1	Description:												
Drawing N°:			Frame Type		MTB 1-5	□Racing 1-5			□ City &	k Trekki	ing 13,5 🗆 Childr		ren 1-2
			车型	山地	车	公路车			城市车		童车		
Material: □Steel □Alloy ☑Carbon □Other							V				Test	result	
Description of test items			Test Pic 测试图				MIB	Race	City	Children	lest	resurt	Onc.
					示						测试纟	结果	Conclusion 判定
	测试项目描述												ä
			0160 1			Н	360	212	180	120			<b>V</b>
1 Impact test (Falling mass) 车架向后冲击测试	1. Weight of drop hammer: 22.5kg 2. Drop height: (H) mm				<b>*</b>	a	30	30	30	20	$\dashv$		Pass
pact test (Falling r 车架向后冲击测试	Requirement:	mation≤ (k)mm			1/1	b	10	10 15 10 20	20				
PSt (F	a. General front fork < (a) mm b. Rigid solid-steel bar < (b) mm No visible cracks		1.										
alling 法测:	No fractures			*									Failed
式 mas			4										
s)													
			3		4	Н/Т	10	10	10				V
2Impact test (Falling frame) 前倒冲击测试	Keep the frame and front fork assembly u kg, (ST) kg and (BB) kg at the top of the l	head tube, vertical post ectively until the roller nvil. Allow the frame e anvil and then repeat			6	S/T	30	30	50	30			Pass
act te 前國	or sea distrior and is two-intologin especial techniques a dearance of (h) mm from the earth and front firk assembly to fall feely to the the operation. The permanent deformation acceptable.					BB	50	50	30				
St (Fa 百冲击						h	300	200	200				
lling 测试	-			1	2	i	60	15	/	20			
fram									/				Failed
e)													
3			II	â	8-8 	F2	200	1100	1000				<b>V</b>
Ca   (equivalen 踏 a   the frame 力 n   75°±0.5%	Apply an acting force of $F=(F2)$ N±05% to (equivalent test piece). Then apply it to the (	150) mm center line o	ne o e 2 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1200 N	d				1 /			Pass
	the fame in the vertical section at an a 75°±0.5%. Apply a test force within 5 per acting force to the main shaft of the pedal. Pe	cent of the maximum				100000 Cy			es				
fatig	to the part of the part of	nama gere.	<b>*</b> 7										
jue te 试										/			Failed
st										1			
41						F3	1200	600					<b>V</b>
4Horizontal fatigue test 水平力疲劳测试	Fix the frame and rear fork on the normal means of installation with	thout limit of the axle). Apply a life front fork end are operation for (j)				F4	600	600					Pass
水平力疲劳测试	required rotation (for the rear horizontal force of + (F3) N toward and - (F4) N backward. Repeat the		+ 1200 N	2				_					
勞 Matiga	cycles. The acting force may freely					j	3000	100000	/				
ie tes													Failed
_ +							l	I	1/		1		1

# SHENZHEN BLUE LINGHT CARBON TECHNOLOGY CO.,LTD Frame ISO4210 Test Report

手直力疲劳测试垂直力疲劳测试	75mi 2. E by 2 3. K steel App	m and then fix xtend the tool 50mm (see the keep a clearand tool and the exty a vertical for	from the top of the middle tube		1200 N	F1	0-1200 3000 Gycks	1200 50000 Cycles	0-1000 5000 Cycles		Pass
6 Vi bration stigue test	2ST 3HI 4BB 5For 6Dro 7.Dro	(KG) distance=120mm (KG) (KG) k pp height=30mm pp height=30mm to BO Standan	<del>1</del> )	7 6 6		H/T S/T BB	20 10 10 30 20 20 40 40 40 20000 Cycles		Pass		
Passing Criteria  No breakage or visible crack shall appear in any part of the frame/front fork assembly after the test.  (The suspension damper may be substituted by an artificial tool).  (For carbon fiber frames, the peak deflections during the test at the point where the forces are applied shall not increase by more than 20% of initial value)  For a full explanation of the testing method requirements please refer to the relevant EN standard.											
Comment		ment	Fatigue testing frequen		Horizontal Fatigue:	Н			tical F		

Approved by: Checked by: Tested by: 吴卫

#### **Photograph of Test Frame**

### <u>测试照片</u>

1.Impact test (Falling mass) 车架前叉组向后冲击



2. Impact test (Falling frame) 车架前倒冲击测试



3. Pedaling fatigue test 踩踏疲劳测试



4. Horizontal fatigue test 水平拉力疲劳测试



5. Vertical fatigue test 垂直拉力疲劳测试



6.Vibration fatigue test 震动疲劳测试

