



**HIGH
PERFORMANCE
MATERIALS**

Confidential Report

Our Ref: 11/18854/C

Notified Body
for PPE Directive,
Construction Products
Regulation & Marine Equipment
Directive
I.D. No. 0338 & 0339

**BTTG High Performance Materials
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**HIGH
PERFORMANCE
MATERIALS**

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Date: 6 December 2013
Our Ref : 11/18854/C/PJH
Your Ref :

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Client: Haining Jintai Knitting Co. Ltd.
No. 17 Xiaxiyili Loulong Road
Haining
Zhejiang
CHINA

Job Title: Tests on knitted material

Client's Order No: -

Date of Receipt: 28th October 2013
Date of Test Start: 1st November 2013

Description of Sample(s): One high-visibility orange coloured, knitted fabric, identified as follows, was received for testing:

Product Name: T/C Fleece
Model Code: 13003
Colour: Fluorescent Orange
Material: 65% Polyester/35% Cotton

Work requested: Testing as specified in GO/RT3279:

Chromaticity and luminance of new background material
Chromaticity and luminance after xenon test



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Sample was identified as follows:

Product Name: T/C Fleece
Model Code: 13003
Colour: Fluorescent Orange
Material: 65% Polyester/35% Cotton

Laboratory Work

Where appropriate, the tests were made in Standard Atmosphere (65 ± 4 % relative humidity at $20 \pm 2^\circ\text{C}$) the sample having been freely and continuously exposed to that atmosphere for at least 24 hours prior to testing.

Chromaticity and Luminance

Chromaticity and Luminance Factor were measured according to 5.1 on the sample as new as specified in BS EN 471: 2003.

Fading was carried out according to BS EN ISO 105 - B02: 1994. For orange – red materials, exposure was continued until the blue scale control standard number 5 changed to step 3 of the grey scale.

The measurements obtained as new, were plotted according to the co-ordinates specified in GO/RT3279 Issue 7: 2012 and after Xenon fading according to the co-ordinates specified in table 2 of BS EN 471: 2003.

According to GO/RT3279 Issue 7, the change in chromaticity after light exposure shall conform to the requirements of BS EN 471: 2003.

The results for testing are given in the table on the following page.

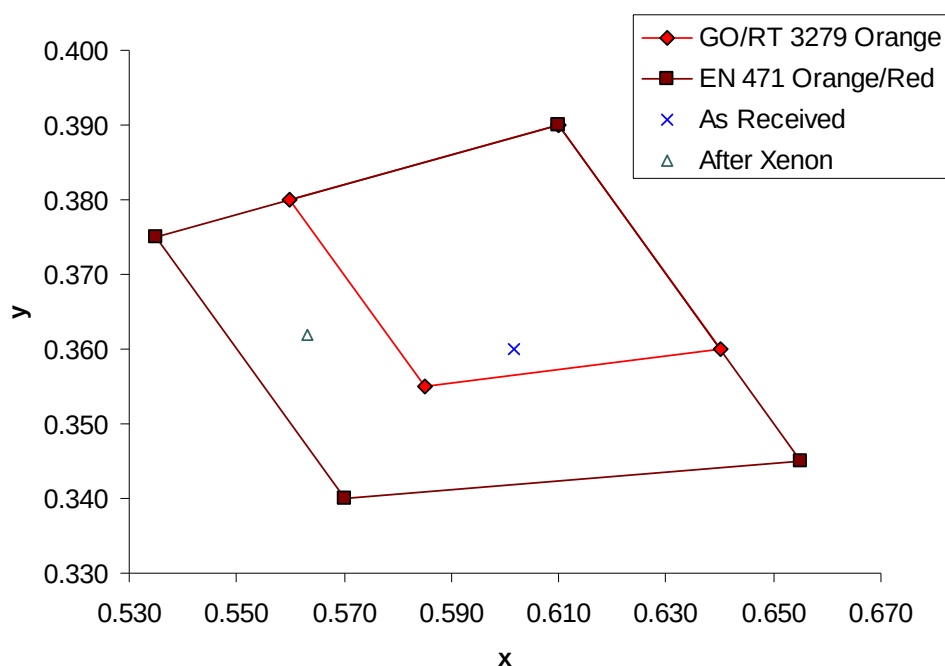
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Specification	Minimum Luminance Factor $\beta_{\min}$	Within co-ordinates			
		x	y		
Fluorescent orange (GO/RT3279 Issue 7)	0.40	0.610	0.390		
		0.640	0.360		
		0.585	0.355		
		0.560	0.380		
Fluorescent orange - red (BS EN 471: 2003)	0.40	0.610	0.390		
		0.544	0.376		
		0.579	0.341		
		0.655	0.344		
Sample Ref.	Result		Pass/Fail		
Model Code: 13003	Luminance Factor β	Chromaticity Co-ordinates		Luminance	Co-ordinates
		x	y		
As Received	0.48	0.602	0.360	Pass	Pass
After Xenon	0.51	0.563	0.362	Pass	Pass

Chromaticity to EN 471: 2003 & GO/RT 3279 Issue 7



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CONCLUSIONS

The sample submitted for testing, identified as "Product Name: T/C Fleece, Model Code: 13003, Colour: Fluorescent Orange, Material: 65% Polyester/35% Cotton", meets the requirements of GO/RT3279 Issue 7: 2012 for a background material when tested as detailed in this report.

Reported by:

Mr P Hutchings
Operational Head

Countersigned by:

Mrs C Austin
Director

An estimation of uncertainty of measurement has not been taken into account when making a judgement on any pass / fail criteria.

Enquiries concerning this report should be addressed to Customer Services.