

TEST REPORT

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| Report Ref. | LEI21041457A Original | | |
| Date Received | 15/04/2021 | Date Issued | 23/04/2021 |

| | |
|-----------------------------------|---|
| Company Name & Address | James C Brett (Yarn merchants Ltd) Monarch Mills Bingley, BD16 2NT GBR |
| Contact Name | Jamie Brett |

| | |
|---------------------------------|----------------------|
| Order Number | 2 |
| Sample Description | Cotton Yarn |
| Ref / Style Number | IC13 |
| Colour | Green |
| No Of Samples | 1 |
| Quoted Fibre Composition | 100% Cotton |
| Weight / Width | 100g Double Knitting |
| Retailer | General |

| Test | Method | Sample | Result |
|--------------------------------|----------------|--------|--------|
| ^Migration of Certain Elements | BS EN71 3:2019 | | Pass |

Tests marked (^) in this report have been performed by an approved 3rd party laboratory.
Tests marked (*) in this report are not included in our UKAS scope of accreditation.



Laura Swindells
(Technician)

^Migration of Certain Elements BS EN71 3:2019

| | Result in mg/kg | Detection Limit in mg/kg | Requirement in mg/kg |
|------------------------------------|---|--------------------------|----------------------|
| Sample 1: Light green ball of wool | | | |
| Antimony (Sb) | Not Detected | 0.125 | 560 |
| Arsenic (As) | Not Detected | 0.125 | 47 |
| Barium (Ba) | 0.4 ppm | 0.125 | 18750 |
| Cadmium (Cd) | Not Detected | 0.125 | 17 |
| Chromium (III) | Not Detected | 0.125 | 460 |
| Lead (Pb) | Not Detected | 0.125 | 23 |
| Mercury (Hg) | Not Detected | 0.0125 | 94 |
| Selenium (Se) | Not Detected | 0.125 | 460 |
| Aluminium (Al) | 2.4 ppm | 0.125 | 70000 |
| Boron (B) | Not Detected | 0.125 | 15000 |
| Cobalt (Co) | Not Detected | 0.125 | 130 |
| Copper (Cu) | 1.8 ppm | 0.125 | 7700 |
| Manganese (Mn) | 1.3 ppm | 0.125 | 15000 |
| Nickel (Ni) | Not Detected | 0.125 | 930 |
| Strontium (Sr) | Not Detected | 0.125 | 56000 |
| Tin (Sn) | Not Detected | 0.125 | 180000 |
| Zinc (Zn) | Not Detected | 0.125 | 46000 |
| Chromium (VI) | Not Detected | 0.0025 | 0.053 |
| Organic Tin | Not Detected | 0.125 | 12 |
| Remark: | mg/kg = milligram per kilogram | | |
| | - Unless the test results were marked with # or Δ, Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively. | | |
| | - The new lead migration limit 2.0mg/kg for Category (I), 0.5mg/kg for Category (II) and 23 mg/kg for Category (III) was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018 | | |
| | - Organic tin test result was expressed as tributyl tin | | |

Overall Test Result: Pass
Uncertainty: ±9%

| Report Type | Issue Date | Revision Reason | Revision Description |
|-------------|------------|-------------------------|----------------------|
| Original | 23-Apr-21 | Complete Original Issue | N/A |

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95%. Unless otherwise specified all compliance and pass/fail statements are binary simple acceptance based on the tolerance interval and, with the exception of graded methods, a test uncertainty ratio greater (TUR) than 4:1. For graded methods the TUR will drop to as low as 0.5:1 when the tolerance limits are within a grade division of the upper scale limit. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are on or close to Specification Limits / Requirements and in such cases it should be noted that the risk of false acceptance or rejection may be as high as 50%, for further information please refer to ILAC G8.