



TEST REPORT CEQ-16-0528-RPR-01

Rev. 0

Issue date: 05/09/2016

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Customer: **P.B.M. SRL - (Pistoia)**

Sample No. 160528

Description: HANDLE

Wall thickness 21 mm

Wall thickness 0,23 mm

Registration date: 28/07/2016

Testing date(s): 07/10/2016

This Test Report is issued within the Quality Management System of Servindustria Pistoia srl and of his CEQ Laboratory, documented by the Quality Manual and its relevant Procedures. Such a Management System guarantees traceability to carried out measurements to national and international standards of SI measurement units, through a metrological chain originating from first line standards with calibration certificates demonstrating traceability to SI standards, as requested by ISO 9001:2008 (§7.6) and ISO 10012:2003 (§7.3.2) standards.

Copies of the calibration certificates of first line equipment are available upon request.

The reported results have been obtained applying standards and/or technical procedures listed in the following page, and refer only to the equipment/samples submitted to testing, in the status they were at testing time.

Measurement uncertainties eventually declared in this Test Report have been estimated according to EA-04/2 and are expressed as expanded uncertainty, obtained multiplying the composed type uncertainty by a coverage factor $k=2$, which corresponds - in case of normal distribution - to a confidence level of about 95%.

Operator G. Gori

Laboratory Chief: G. Gori

This Test Report has been issued after internal electronic approval and authorization

This Test Reports refers only to the tested sample(s)

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- Design and supply of services for: - Vocational, high, lifelong training and compulsory education - Consultancy on quality management systems - Consultancy on standards and laboratory testing in leather, footwear, textile, wood, furniture and mechanics sectors - Calibration of measuring and testing equipment

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TEST METHOD: FLEXING ON TUBULAR HANDLES

Description Handles for blooms and other homeware - Determination of flexing resistance

Reference document Internal method

Test Procedure PT-LAB-2601

SAMPLING - CONDITIONING

Sampling: Performed by the Customer

Conditioning before and during test: (23±2) °C / (50±5)% RH

SPECIMENS

External diameter: 21 mm Wall thickness: 0,23 mm

Material: Steel with polyurethane coating

TEST CONDITIONS

Loading mode: 3-point flexing

Loading speed: 500 mm/min

Span length: 360 mm

CONFORMITY REQUIREMENTS

Min. required Flex Resistance: Not specified

RESULTS

Specimen	Force (N)	Flexing torque (Nm)	Sigma (MPa)	Notes
1	437	39	510	
2	402	36	469	
3	426	38	497	
4	357	32	417	
5	419	38	489	
Average	408	37	477	
Min	357	32	417	
Max	437	39	510	
Std.Dev.	31	03	37	
CV	8%	00	00	

Notes: The Sigma value is the maximum normal stress in the tube wall

Operator G. Gori

Laboratory Chief: G. Gori

END OF REPORT

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