



TEST REPORT CEQ-16-0532-RPR-01

Rev. 0

Issue date: 05/09/2016

Page 1 di 2

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

Sample No. 160532

Description: HANDLE

Diameter 25 mm

Wall thickness 0,30 mm

Registration date: 29/07/2016

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)

The copy of this document is allowed only in full original.

A partial copy is allowed only after CEQ written authorization, to be quoted in the copy itself.

Company Quality Management System ISO 9001:2008 certified by TUV Italia (Cert.N.501008476) for:

- 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

TEST REPORT CEQ-16-0532-RPR-01

Rev. 0

Issue date: 05/09/2016

Page 2 di 2

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: 25 mm Wall thickness: 0,30 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	1.038	93	658	
2	1.025	92	649	
3	1.145	103	725	
4	986	89	625	
5	777	70	492	
Average	994	89	630	
Min	777	70	492	
Max	1.145	103	725	
Std.Dev.	135	12	86	
CV	14%	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

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