

QUALITY SERVICE CENTRE TESTING LABORATORY



Rev. 0

Page 1 di 2

TEST REPORT CEQ-16-0531-RPR-01

Issue date: 05/09/2016

Testing date(s):

Customer:	P.B.M. SRL - (Pistoia)	
	Sa	mple No. 160531
Description:	HANDLE	
Diameter Wall thickness	21 mm 0,35 mm	
Registration date:	29/07/2016	

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 form 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.

07/10/2016

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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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



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Page 2 di 2 **TEST METHOD: FLEXING ON TUBULAR HANDLES** Description Handles for blooms and other homeware - Determinazion 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: 0,35 mm Steel with polyurethane coating Material: **TEST CONDITIONS** Loading mode: 3-point flexing 500 mm/min Loading speed: Span length: 360 mm CONFORMITY REQUIREMENTS Min. required Flex Resistance: Not specified RESULTS Force Flexing torque Sigma Specimen Notes (MPa) (N) (Nm) 1 852 77 665 2 778 70 607 3 74 642 822 4 81 699 896 5 789 71 616 Average 827 74 646 Min 70 607 778 Max 81 699 896 04 Std.Dev. 48 38 C۷ 6% 00 00 Notes: The Sigma value is the maximum normal stress in the tube wall

G. Gori Operator

Laboratory Chief:

G. Gori

END OF REPORT

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