

TEST REPORT



**BUYER: HERRAMIENTAS TECNICAS
S.A**

REFERENCE NO: PWO 589/15

**PRODUCT: RUBBER INSULATING
SLEEVES**

DATE: 29TH FEBRUARY 2016



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REFERENCE NO.: PWO 589/15

LOT NO.: 2-ISL-02/16

DESCRIPTION

This is to certify that, rubber insulating sleeves of -

Class 2, ISL-CLS2-O, orange, Style B - Curved Elbow Sleeve

manufactured in Jan to Feb 2016 for Herramientas Tecnicas S.A. have been subjected to dimensions measurement, visual inspection, physical properties test & AC electrical tests at 50Hz in accordance with ASTM D1051-14a.

VISUAL INSPECTION

Status: Each sleeve is free from harmful physical irregularities in accordance with ASTM D1051-14a section 11.

PHYSICAL PROPERTIES

Sampling test results in accordance with ASTM D1051-14a, section 19.2.

	<u>Results</u>	<u>Requirements</u>	<u>Status</u>
TENSILE STRENGTH & TENSILE STRESS AT 200% ELONGATION			
Class 2: Original.			
1. Tensile strength, MPa	Average: 25	min. 17	PASS
2. Elongation at break, %	Average: 940	min. 600	PASS
Class 2: Heat-aged for 168 hrs @ 70°C.			
1. Tensile strength, % of original	(26MPa) 104%	min. 80	PASS
2. Elongation at break, %	(860%) 91%	min. 80	PASS
MOISTURE ABSORPTION TEST			
Class 2:			
Weight Change, %	+ 0.50	max. 1.5	PASS



G.B.Industries Sdn Bhd

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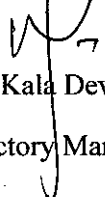
AC PROOF TEST

Sampling test results in accordance with ASTM D1051-14a, section 18.3.3.

The sleeve is hung in the test machine so that the top of the shoulder, the top of the underarm & the cuff edge are all in a horizontal plane, parallel to the surface of the water in the test tank. The water level during the test shall be the same inside and outside the sleeve. A metal rod was lowered inside the sleeve as inner electrodes and the water in the tank outside the sleeve as a grounded electrode. A voltage was applied to the electrodes at an increasing rate of 1000V/s until specified voltage for each class of glove was reached. The specified voltage was applied for a period of 3 minutes after which the voltage was lowered to 0 V.

<u>Sample</u>	<u>Proof Test Voltage</u>	<u>Results</u>	<u>Maximum Current, mA</u>
CLASS 2	20.0 KV	PASS	11.3 – 13.5mA

Verified by : 
Name : Norwahida Yusof
Designation : Sr. QA/QC Executive

Approved by : 
Name : N. Kala Devi
Designation : Factory Manager