

# NELTEX

## DEVELOPMENT CO., INC.

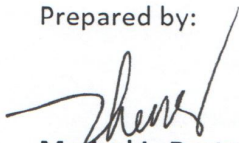
REF#: 2013-002

### CERTIFICATION

This is to certify that **NELTEX Development Co. Inc.** is producing **Neltex Powerguard 8055 High Impact uPVC Electrical Conduit Thin Wall** with sizes 20mm, 25mm and 32mm with an effective length of 3 meters.

**Neltex Powerguard 8055 High Impact uPVC Electrical Conduits** are inspected and tested in conformance to PNS 14:1983 Specification for Unplasticized Polyvinyl Chloride (uPVC) – Electrical Conduit.

Prepared by:



**Maricel L. Rostata**  
QA Supervisor

Approved by:



**Armando H. Julva**  
QA/TS Manager

# NELTEX

## DEVELOPMENT CO., INC.

### LABORATORY TEST RESULT

REF#: 2013-057

PRODUCT: Neltex Powerguard 8055 High Impact uPVC Electrical Conduit Thin Wall  
 REFERENCE STANDARD: PNS 14:1983

**A. Dimension**

NOMINAL PIPE SIZE	OUTSIDE DIAMETER (mm)		WALL THICKNESS (mm)		REMARKS
	STANDARD	RESULT (mean)	STANDARD	RESULT (mean)	
20mm	20.00 – 20.20	20.12	1.500 – 1.850	1.610	Passed
25mm	25.00 – 25.20	25.11	1.500 – 1.850	1.650	Passed
32mm	32.00 – 32.20	32.08	1.500 – 1.850	1.620	Passed

**B. Resistance to Acetone - ISO 3472**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT	REMARKS
20mm to 32mm	No sign of delamination or disintegration after 2 hours of immersion	No delamination or disintegration	Passed

**C. Resistance to External Blows (Impact Test) - ISO 3127**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT	REMARKS
20mm to 32mm	True Impact Rate (TIR) shall not exceed 10% where TIR = total number of breaks / total number of blows	0%	Passed

**D. Flattening - ASTM D2241**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT	REMARKS
20mm to 32mm	No evidence of splitting, cracking or breaking when flattened to 40% of the outside diameter	No sign of splitting, cracking or breaking when flattened to 40% of the outside diameter	Passed

**E. Heat Reversion - PNS 14**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT (mean)	REMARKS
20mm to 32mm	5.00% maximum after 1 hour at 150°C	3.85%	Passed

We hereby certify that the above physical and mechanical laboratory analysis are true and correct as contained in the quality records of the company.

Test verified by:

Maricel L. Rostata  
QA Supervisor

Noted by:

Arman H. Julva  
QA/TS Manager

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PHILIPPINE STANDARD  
Quality Certification Mark



### TECHNICAL SPECIFICATIONS

<b>PRODUCT</b>	Neltex Powerguard 8055 High Impact uPVC Electrical Conduit Thin Wall
<b>REFERENCE STANDARD</b>	PNS 14:1983 Specification for Unplasticized Polyvinyl Chloride (uPVC) – Electrical Conduit

#### A. DIMENSION

NOMINAL PIPE SIZE	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	EFFECTIVE LENGTH
20mm	20.00 – 20.20	1.500 – 1.850	3 meters
25mm	25.00 – 25.20	1.500 – 1.850	3 meters
32mm	32.00 – 32.20	1.500 – 1.850	3 meters

#### B. PHYSICAL PROPERTIES

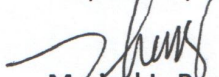
PROPERTY	STANDARD REQUIREMENT	TEST METHOD
Vicat Softening Temperature	minimum 76 <sup>o</sup> C	ISO 2507 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Vicat Softening Temperature
Heat Reversion	5% maximum after 1 hour at 150 <sup>o</sup> C	PNS 14:1983 Specification for Unplasticized Polyvinyl Chloride (uPVC) – Electrical Conduit
Water Absorption	maximum 40 g/m <sup>2</sup>	ISO 2508 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Water Absorption – Determination and specification
Resistance to Acetone	No sign of delamination or disintegration after 2 hours of immersion	ISO 3472 Unplasticized Polyvinyl Chloride (PVC) Pipes – Specification and Determination of Resistance to Acetone

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PROPERTY	STANDARD REQUIREMENT	TEST METHOD
Tensile Strength	minimum 27.5 MPa	PNS 14:1983 Specification for Unplasticized Polyvinyl Chloride (uPVC) – Electrical Conduit
Elongation at break	minimum 15%	PNS 14:1983 Specification for Unplasticized Polyvinyl Chloride (uPVC) – Electrical Conduit
Resistance to Burning	Flame shall extinguish itself in less than 30 seconds after the removal of flame	PNS 14:1983 Specification for Unplasticized Polyvinyl Chloride (uPVC) – Electrical Conduit
Resistance to External Blows (Impact Test)	True Impact Rate (TIR) shall not exceed 10% where TIR = total number of breaks / total number of blows	ISO 3127 Thermoplastics pipes – Determination of Resistance to External Blows – Round-the-clock Method
Flattening	No evidence of splitting, cracking or breaking when flattened to 40% of the outside diameter	ASTM D2241 Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)
IZOD Impact Strength	34.7 J/m minimum	ASTM D256 Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics

Prepared by:



**Maricel L. Rostata**  
QA Supervisor

Approved by:



**Armando H. Julva**  
QA/TS Manager