

CERTIFICATE

This is to certify that **NELTEX Development Co., Inc.** is producing **Neltex Powerline uPVC Electrical Conduit Thick Wall** with sizes 20mm, 25mm, 32mm, 40mm, 50mm, 63mm, 75mm, 90mm, 110mm with effective length of 3 meters.

Neltex Powerline uPVC Electrical Conduit Thick Wall are inspected and tested in conformance to PNS 14: 1983 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) – Electrical Conduit.

This certification is being issued for whatever legal purposes it may serve.

Neltex Development Company Incorporated



Reynaldo C. Degollado
QA Manager

TECHNICAL SPECIFICATION

PRODUCT	Neltex Powerline uPVC Electrical Conduit Thick Wall
REFERENCE STANDARD	PNS 14: 1983 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) – Electrical Conduit.

A. DIMENSIONS

Nominal Pipe Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Effective Length (meters)
20	20.00 ~ 20.20	2.200 ~ 2.620	3
25	25.00 ~ 25.20	2.300 ~ 2.730	3
32	32.00 ~ 32.20	2.400 ~ 2.840	3
40	40.00 ~ 40.20	2.400 ~ 2.840	3
50	50.00 ~ 50.20	2.400 ~ 2.870	3
63	63.00 ~ 63.20	2.500 ~ 2.980	3
75	75.00 ~ 75.30	2.900 ~ 3.390	3
90	90.00 ~ 90.30	3.500 ~ 4.020	3
110	110.00 ~ 110.40	4.200 4.820	3

B. PHYSICAL PROPERTIES

Property	Standard Requirement	Test Method
Vicat Softening Temperature	Minimum 76°C	ISO 2507 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Vicat Softening Temperature
Heat Reversion	5% maximum after 1 hour at 150°C	PNS 14: 1983 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) – Electrical Conduit.
Water Absorption	Maximum 40 g/m ²	ISO 2508 Unplasticized Polyvinyl Chloride (PVC) pipes and fittings – Water Absorption – Determination

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DEVELOPMENT CO., INC.

REF # 20-1116-01 p.3

Property	Standard Requirement	Test Method
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
Tensile Strength	Minimum 27.5 MPa	PNS 14: 1983 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) – Electrical Conduit.
Elongation at break	Minimum 15%	PNS 14: 1983 Standard Specification for Unplasticized PolyVinyl Chloride (uPVC) – Electrical Conduit.
Resistance to Burning	Flame should extinguish itself in less than 30 seconds after the removal of flame	PNS 14: 1983 Standard 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 Thermoplastic 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 Polyvinyl Chloride (PVC) Pressure Rated Pipe (SDR Series)
IZOD Impact test	Minimum 34.7 J/m	ASTM D256 Standard Test Method for Determining the IZOD Pendulum Impact Resistance of Plastics


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