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## CERTIFICATE

This is to certify that **NELTEX Development Co., Inc.** is producing **Neltex PP-R PN20** with sizes 20mm, 25mm, 32mm, 40mm, 50mm, 63mm, 75mm, 90mm, 110mm with effective length of 4 meters.

**Neltex PP-R PN20** are inspected and tested in conformance to ISO 15874: Plastic Piping Systems for Hot and Cold Water Installations.

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

Neltex Development Company Incorporated

Reynald C. Degollado

QA Manager

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## **TECHNICAL SPECIFICATION**

PRODUCT	Neltex PP-R PN20		
REFERENCE STANDARD	ISO 15874: Plastic Piping Systems for Hot and Cold Water Installations.		

## A. DIMENSIONS

Nominal Pipe Size (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Effective Length (meters)
20	20.00 ~ 20.30	3.40 ~ 3.90	4
25	25.00 ~ 25.30	4.20 ~ 4.80	4
32	32.00 ~ 32.30	5.40 ~ 6.10	4
40	40.00 ~ 40.40	6.70 ~ 7.50	4
50	50.00 ~ 50.50	8.30 ~ 9.30	4
63	63.00 ~ 63.60	10.5 ~ 11.70	4
75	75.00 ~ 75.70	12.50 ~ 13.90	4
90	90.00 ~ 90.90	15.00 ~ 16.7	4
110	110.00 ~ 111.00	18.30 ~ 20.3	4

## **B. PHYSICAL PROPERTIES**

Property	Standard Requirement	Test Method
Resistance to Internal Pressure (water in water)	No failure during the test period with the following hoop stress: a. 20 <sup>o</sup> C, 1hr, 16MPa b. 95 <sup>o</sup> C, 22hrs, 4.3MPa c. 95 <sup>o</sup> C, 165hrs, 3.8MPa d. 95 <sup>o</sup> C, 1000hrs, 3.5MPa	EN 921: 1994 Plastic Piping Systems – Thermoplastic Pipes – Determination of Resistance to internal pressure at Constant Temperature
Thermal Stability by Hydrostatic Pressure Testing (Water in air)	No bursting during test period: 1.9MPa hoop stress, 110 <sup>0</sup> C	EN 921: 1994 Plastic Piping Systems – Thermoplastic Pipes – Determination of Resistance to internal pressure at Constant Temperature

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Property	Standard Requirement		Test Method
Longitudinal Reversion	Wall thickness: ≤8mm	2% maximum after 1 hour at 135 <sup>0</sup> C	EN 743: 1994 Plastic piping and ducting systems – Thermoplastic pipes – Determination of the Longitudinal Reversion
	Wall thickness: >8mm <u>&lt;</u> 16mm	2% maximum after 2 hours at 135 <sup>0</sup> C	
Impact Resistance	< 10% Breakage Rate of Tested Samples		ISO 9845 Thermoplastic pipes for the transport of fluids – Determination of Pendulum Impact Strength by Charpy Method
Melt Flow Rate (pipe)	30% maximum difference compared with compound at 230 <sup>0</sup> C, 2.16 kg		ISO 1133 Plastics – Determination of the Melt Mass flow rate (MFR) and the melt volume flow rate (MVR) of thermoplastics.

0/ Reynaldo C. Degollado

QA Manager

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