

### LABORATORY TEST

**PRODUCT:** Neltex Sewerguard 8055 High Impact uPVC Sewer Pipes  
SDR 34 - Sewerlock & Socket Type

**REFERENCE STANDARD:** ISO 4435

**A. Dimension**

NOMINAL PIPE SIZE	OUTSIDE DIAMETER (mm)		WALL THICKNESS (mm)		REMARKS
	STANDARD	RESULT (mean)	STANDARD	RESULT (mean)	
160mm	160.0 - 160.4	160.24	4.70 - 5.40	4.82	Passed
200mm	200.0 - 200.5	200.31	5.90 - 6.70	6.01	Passed
250mm	250.0 - 250.5	250.29	7.30 - 8.30	7.40	Passed
315mm	315.0 - 315.6	315.33	9.20 - 10.40	9.29	Passed
400mm	400.0 - 400.70	400.34	11.70 - 13.10	11.81	Passed
500mm	500.0 - 500.90	500.43	14.60 - 16.30	14.72	Passed

**B. Resistance to Dichloromethane - ISO 9852**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT	REMARKS
160mm to 500mm	No sign of delamination or disintegration after 15 minutes of immersion	No delamination or disintegration	Passed

**C. Longitudinal Reversion - ISO 2505**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT (mean)	REMARKS
160mm	5.00% maximum after 1 hour at 150 <sup>0</sup> C	3.14%	Passed
200mm		2.51%	Passed
250mm		2.44%	Passed
315mm	5.00% maximum after 2 hours at 150 <sup>0</sup> C	2.05%	Passed
400mm		1.14%	Passed
500mm		1.08%	Passed

**E. Flattening - ASTM D2241**

NOMINAL PIPE SIZE	STANDARD REQUIREMENT	RESULT	REMARKS
160mm to 500mm	No evidence of splitting, cracking or breaking when flattened to 40% of the outside diameter	No sign of splitting, cracking or breaking even when flattened to 100% of the outside diameter	Passed

**F. Vicat Softening Temperature - EN 727**

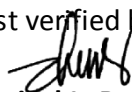
Material	STANDARD REQUIREMENT	RESULT	REMARKS
for Sewer Pipe	$\geq 77^{\circ}\text{C}$	83.9 $^{\circ}\text{C}$	Passed

**G. Tensile Strength - ASTM D1784**

Material	STANDARD REQUIREMENT	RESULT	REMARKS
uPVC Material	$\geq 48.3 \text{ MPa}$	55 MPa	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:



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