

# Tensile Test Report

## Test Information

Sample ID:	N/A
Material:	N/A
Grade:	N/A
Standard:	ISO 527 - Plastics
Date:	2025-12-08
Operator:	N/A
Customer:	N/A

## Specimen Dimensions

Specimen Type:	Type 1A
Gauge Length:	50.0 mm
Thickness:	4.0 mm
Width:	10.0 mm
Cross-Section Area:	40.0 mm <sup>2</sup>
Grip Distance:	115.0 mm

## Mechanical Properties

Property	Symbol	Value	Unit
Ultimate Tensile Strength	$\sigma_{UTS}$	6.45	MPa
Yield Strength (Rp0.2)	$\sigma_y$	4.75	MPa
Young's Modulus	E	39.9	MPa
Elongation at Break	$\varepsilon_b$	49.98	%
Maximum Force	F_max	81.11	N
Force at Yield	F_y	80.13	N
Energy to Break	U_b	1.4547	J

## Test Conditions

Control Mode: **Displacement Control**  
Test Speed: **1.0 mm/min**  
Temperature: **23.0 °C**  
Humidity: **50.0 % RH**  
Data Points: **1274**  
Test Duration: **26.2 s**

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Tested by

Approved by