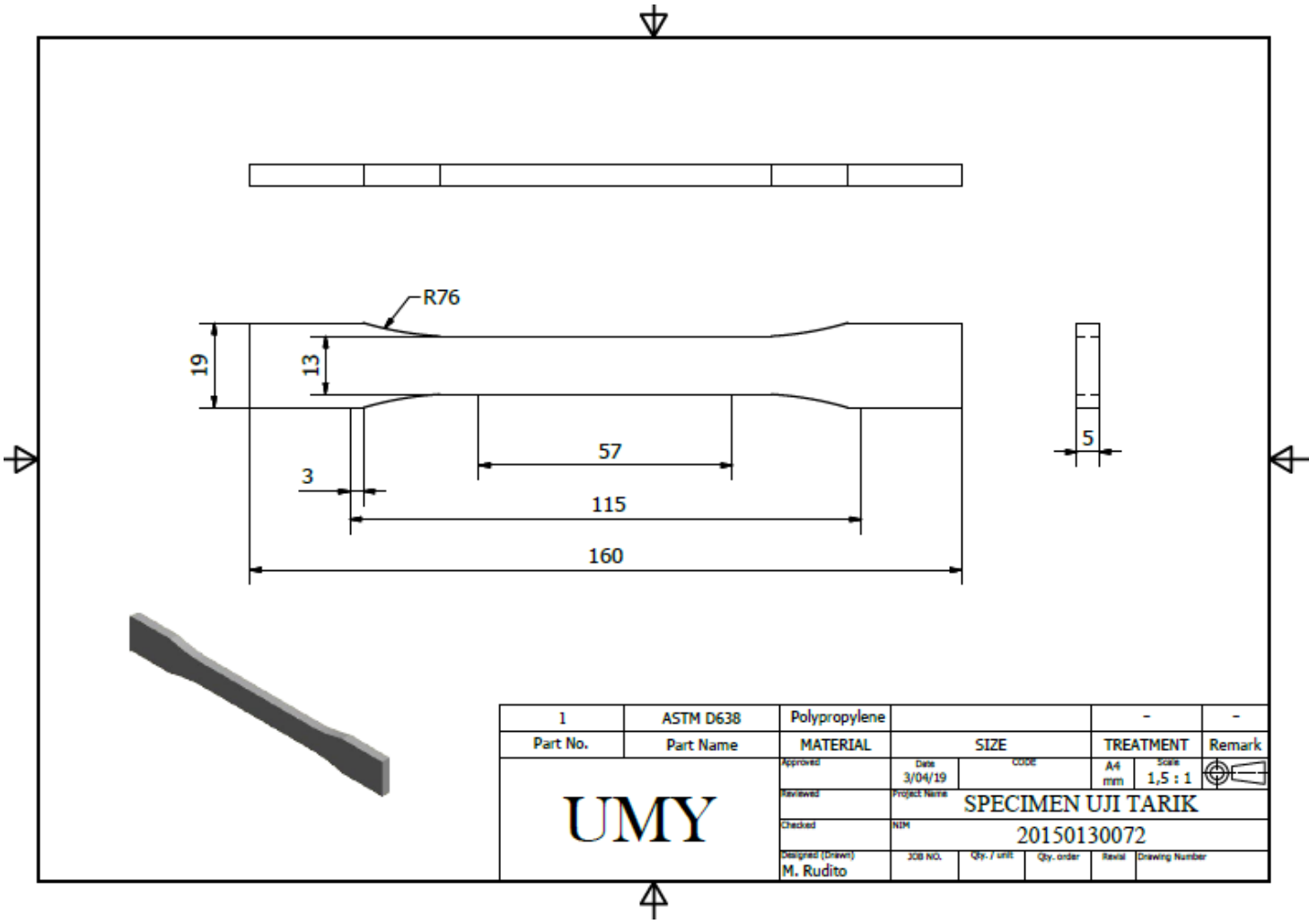


LAMPIRAN

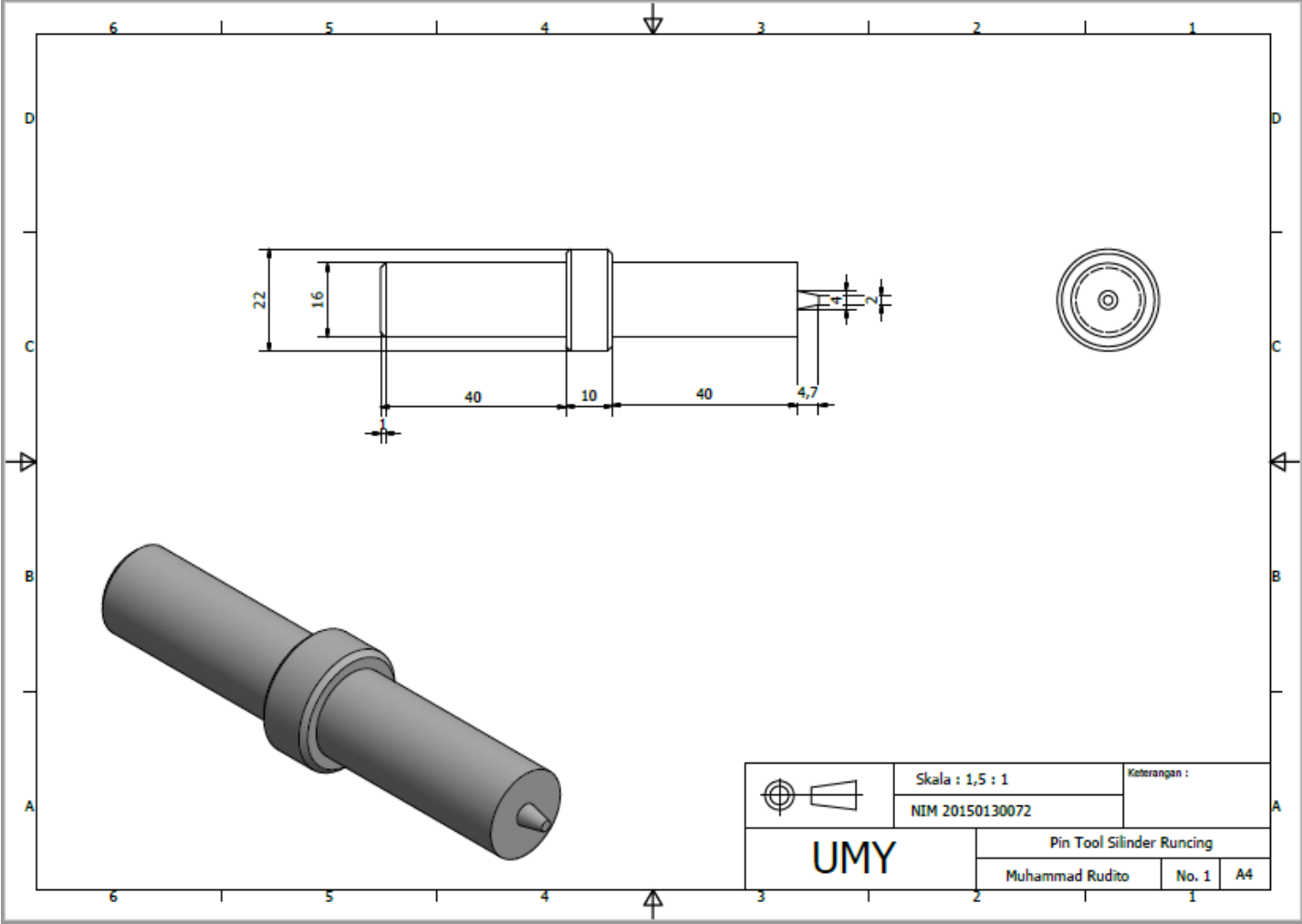
Lampiran 1. Gambar Spesimen Uji Tarik



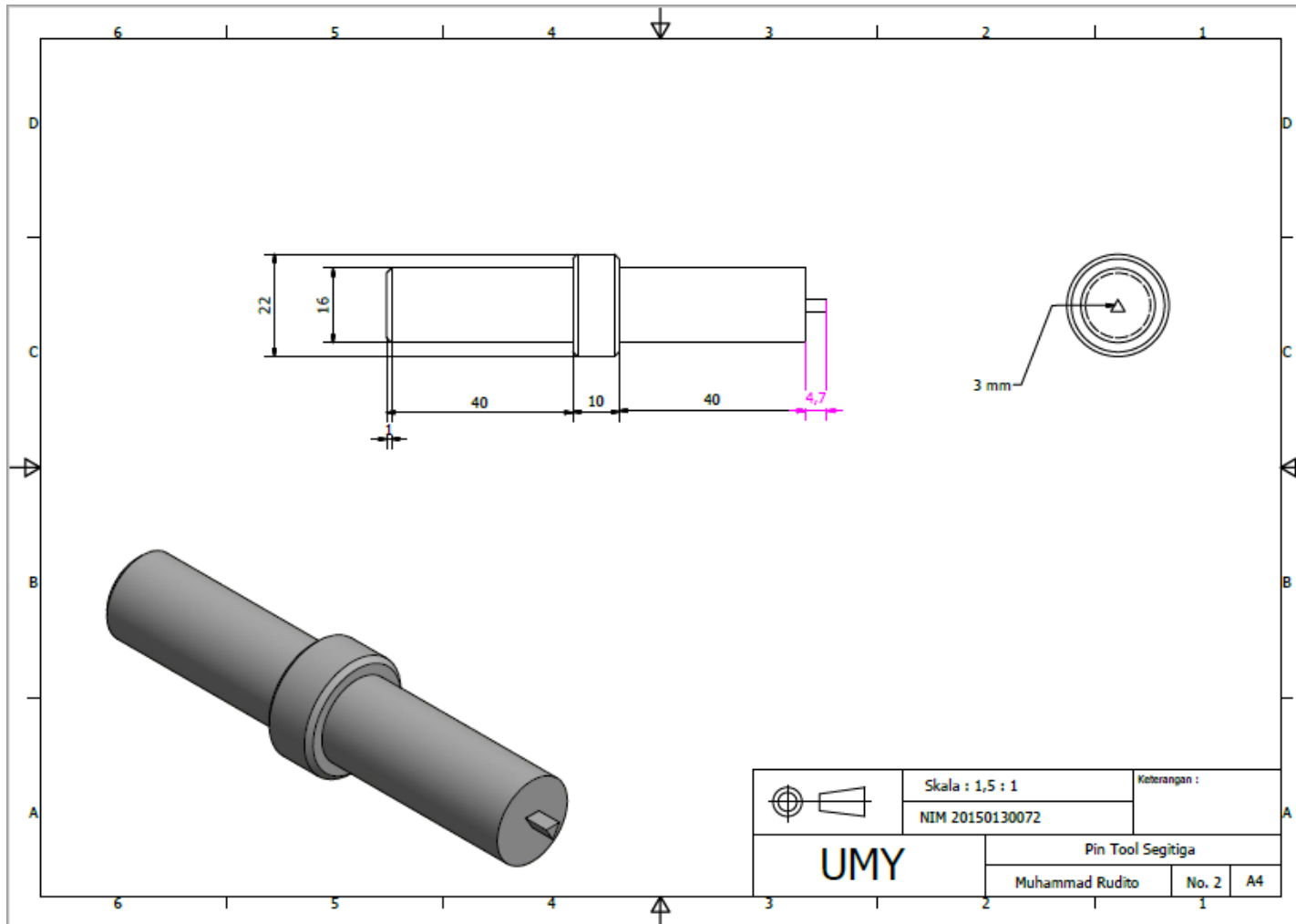
Lampiran 2. Spesimen uji tarik standar ASTM D 638 tipe I



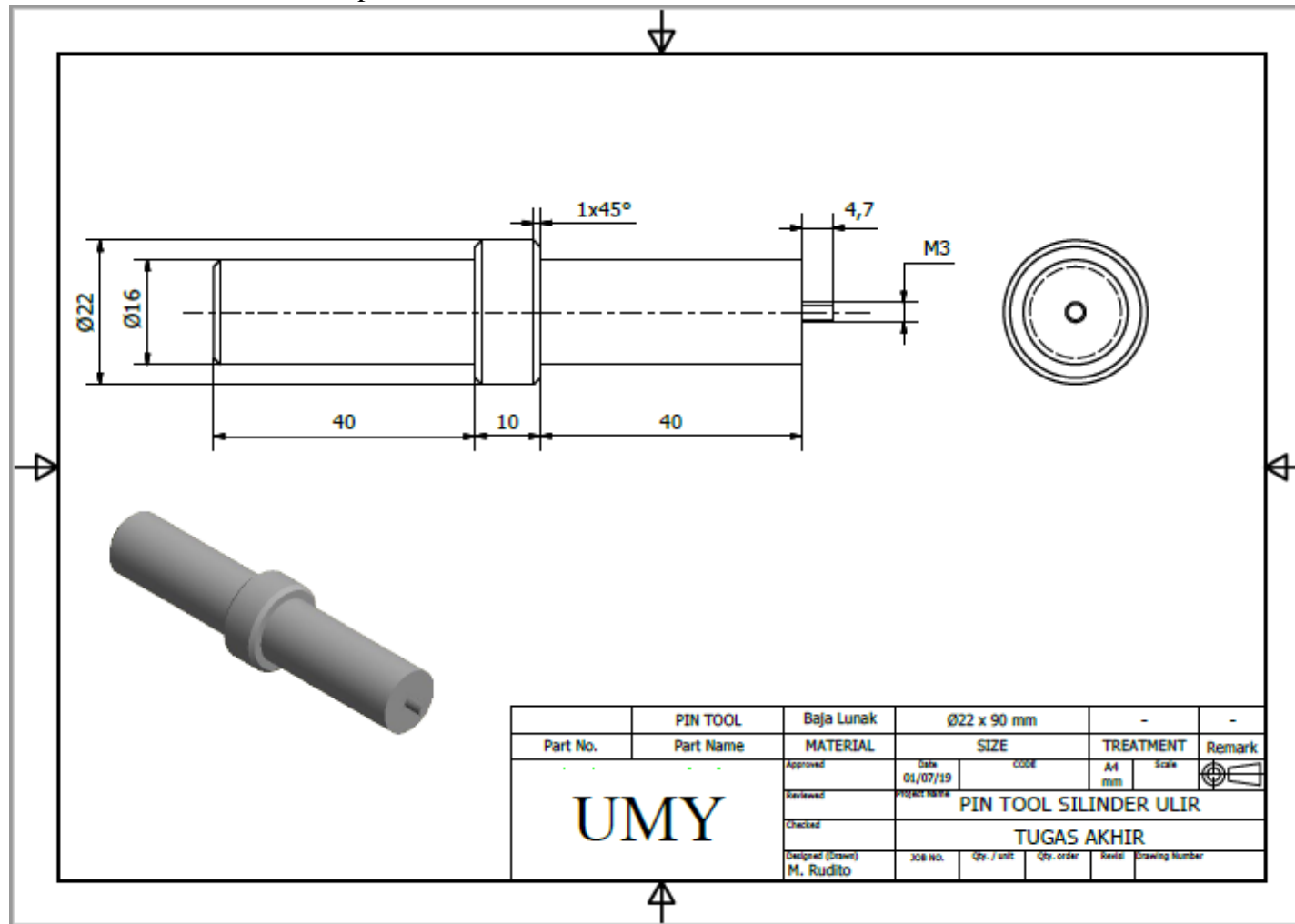
Lampiran 3. Gambar Desain Pin Tool Silinder Runcing



Lampiran 4. Gambar Desain Pin Tool Segitiga



Lampiran 5. Gambar Desain Pin Tool Silinder Ulir



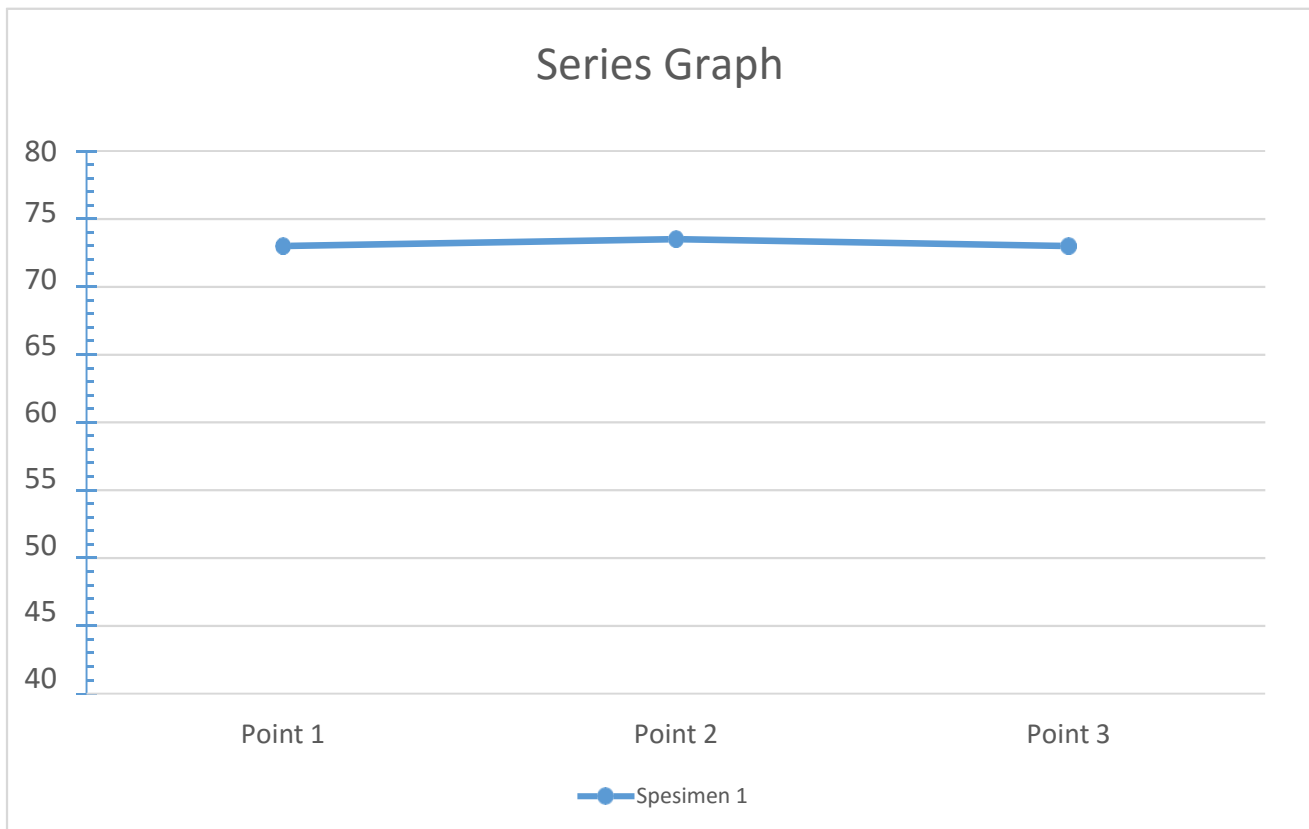

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 Jawa Tengah, Indonesia



Hardness Test Report

Customer : Muhammad Rudito
 Material : Polypropylene
 Note : Raw Material
 Standart : Shore D



Result

	Point 1	Point 2	Point 3
Spesimen 1	73	73,5	73

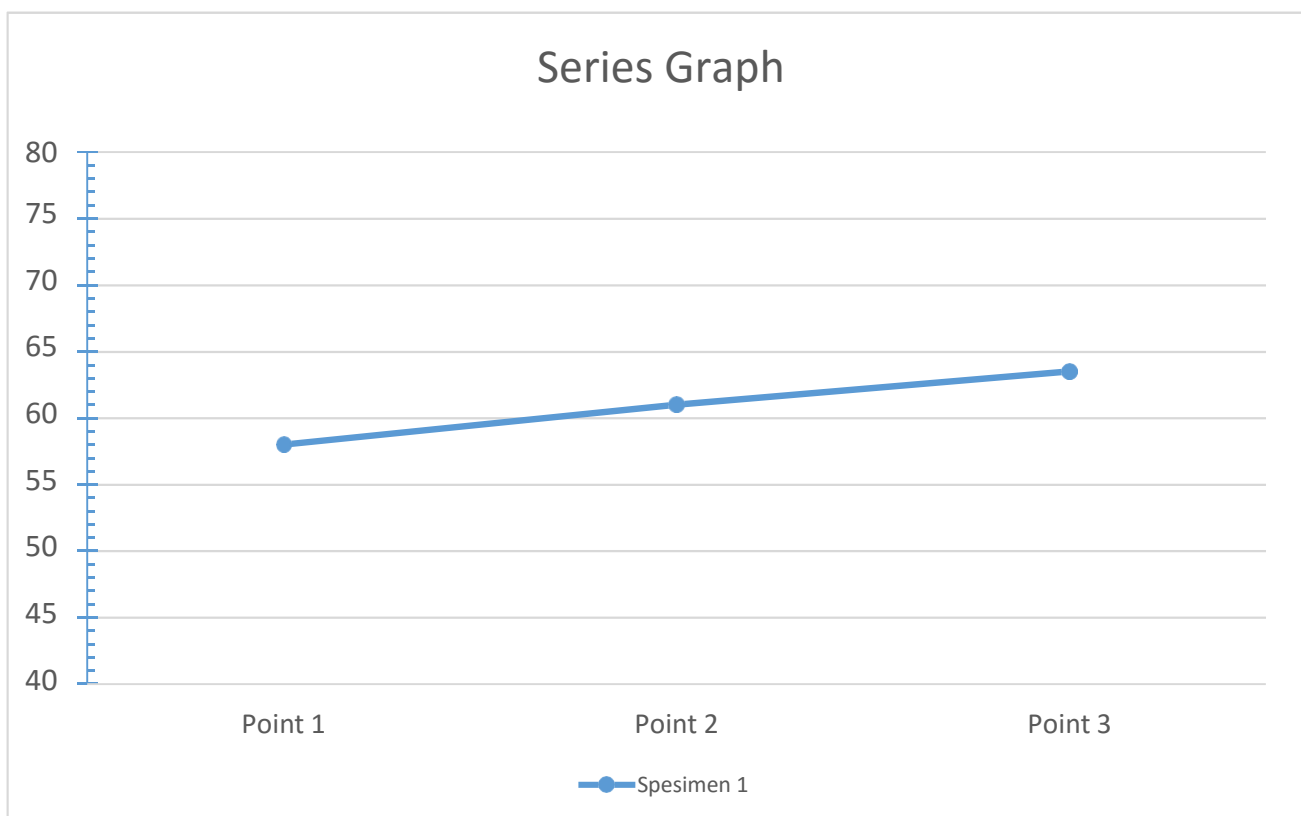

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 Jawa Tengah, Indonesia



Hardness Test Report

Customer : Muhammad Rudito
 Material : Polypropylene
 Note : Pin Segititga
 Standart : Shore D



Result

	Point 1	Point 2	Point 3
Spesimen 1	58	61	63,5

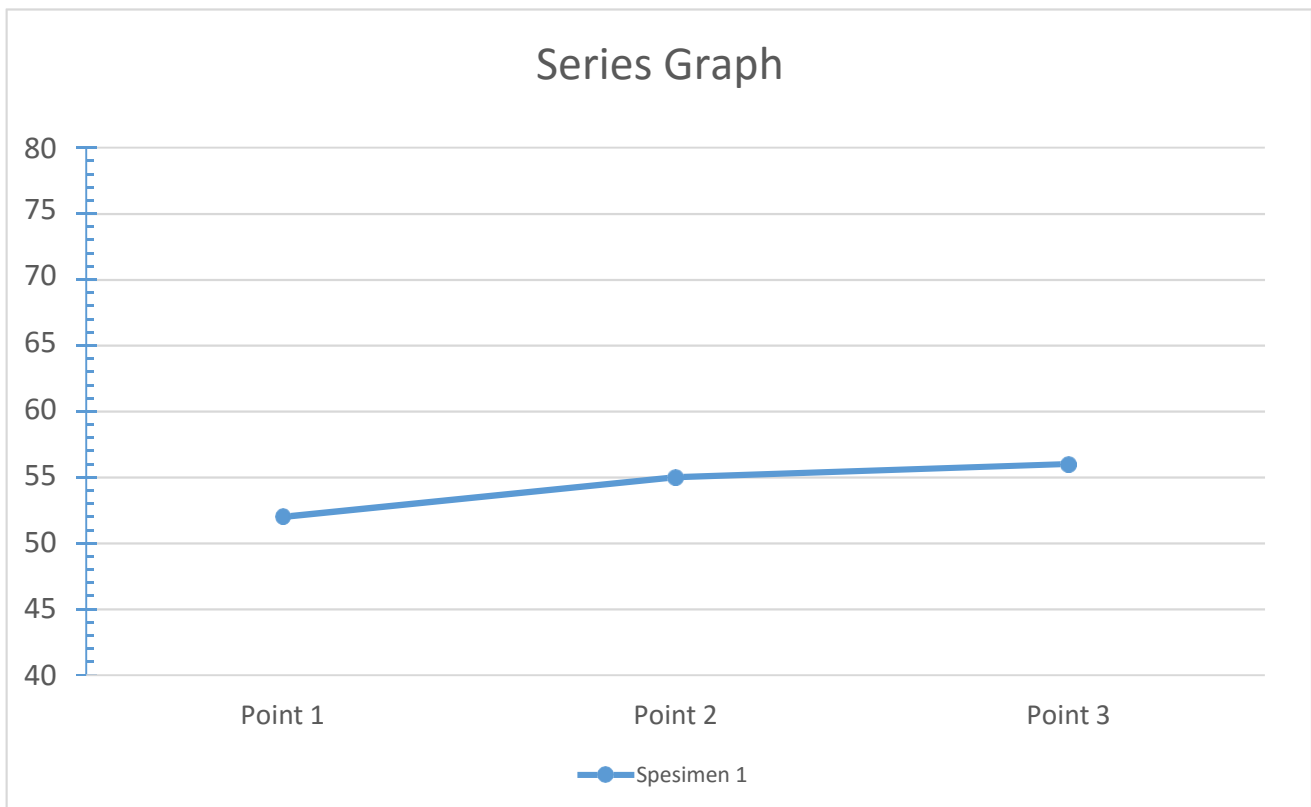

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 Jawa Tengah, Indonesia



Hardness Test Report

Customer : Muhammad Rudito
 Material : Polypropylene
 Note : Pin Silinder Ulir
 Standart : Shore D



Result

	Point 1	Point 2	Point 3
Spesimen 1	52	55	56

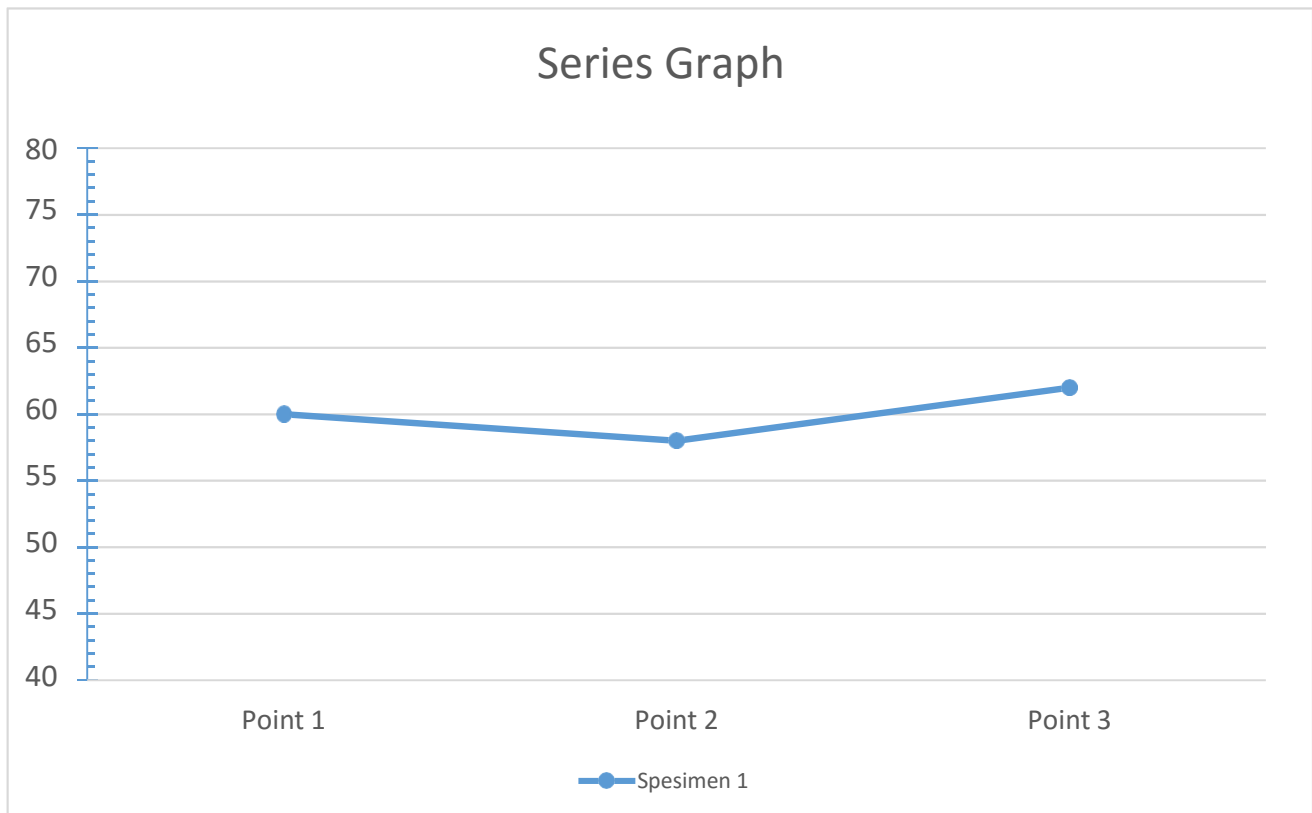

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 Jawa Tengah, Indonesia



Hardness Test Report

Customer : Muhammad Rudito
 Material : Polypropylene
 Note : Pin Silinder Runcing
 Standart : Shore D



Result

	Point 1	Point 2	Point 3
Spesimen 1	60	58	62

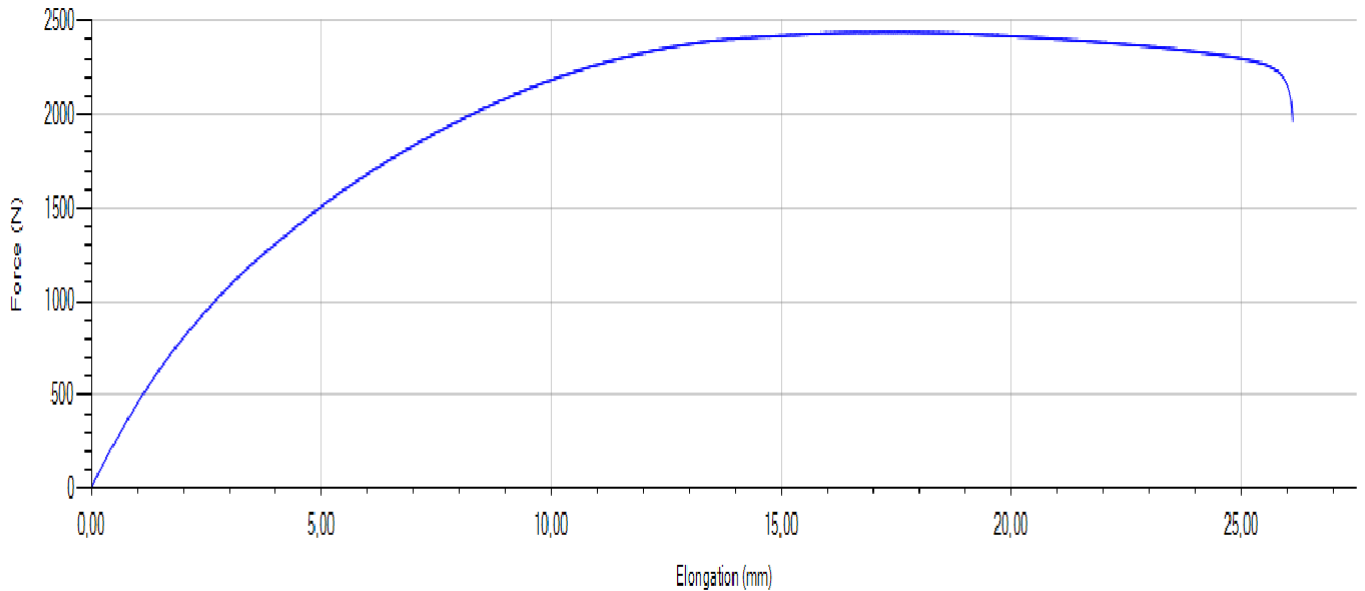
Polypropylene

Raw Material

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 11:02
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 17,332 mm

Force : 2441 N



— Test 1

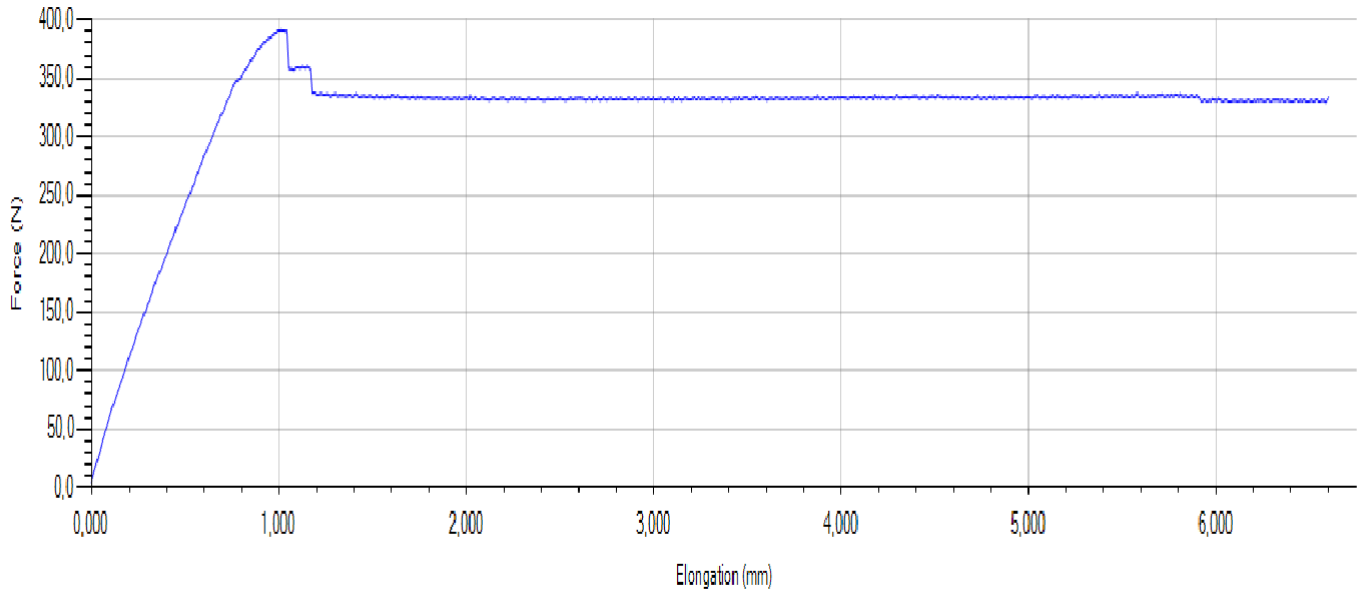
Polypropylene

Perekat

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 11:12
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 1,013 mm

Force : 391,3 N



— Test 1

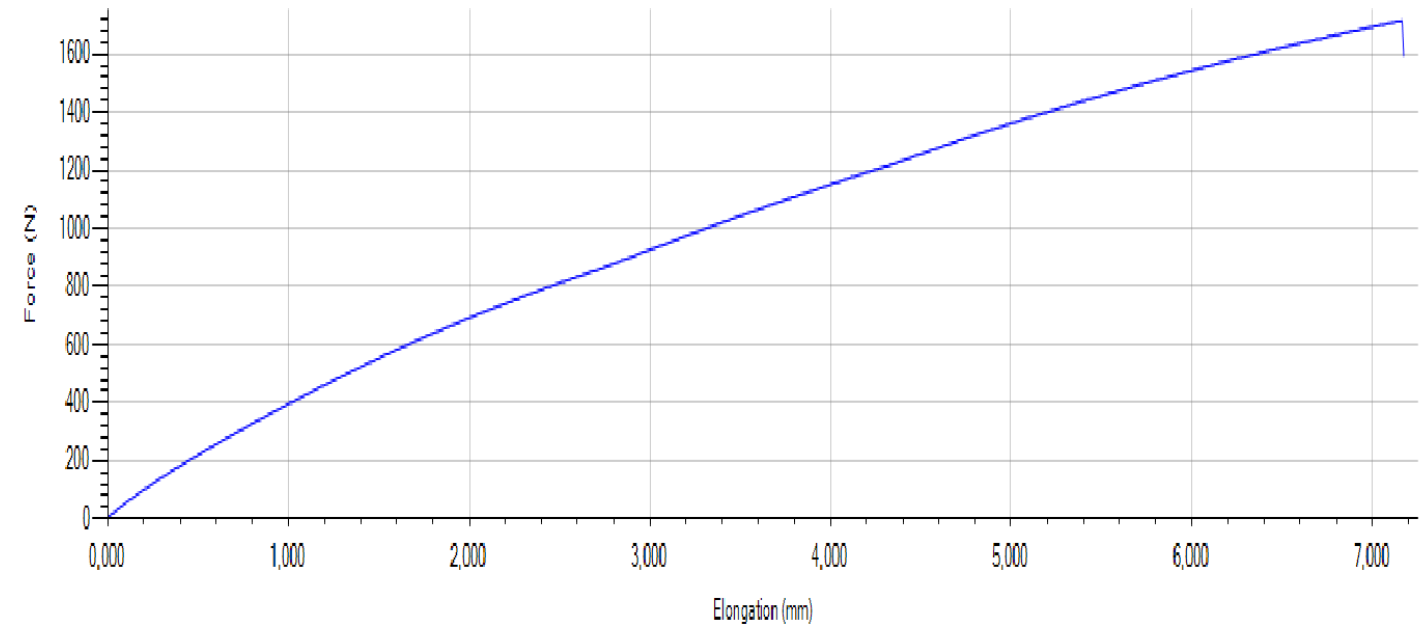
Polypropylene

Pin Tool Segitiga (sample 1)

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 11:38
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 7,163 mm

Force : 1715,5 N



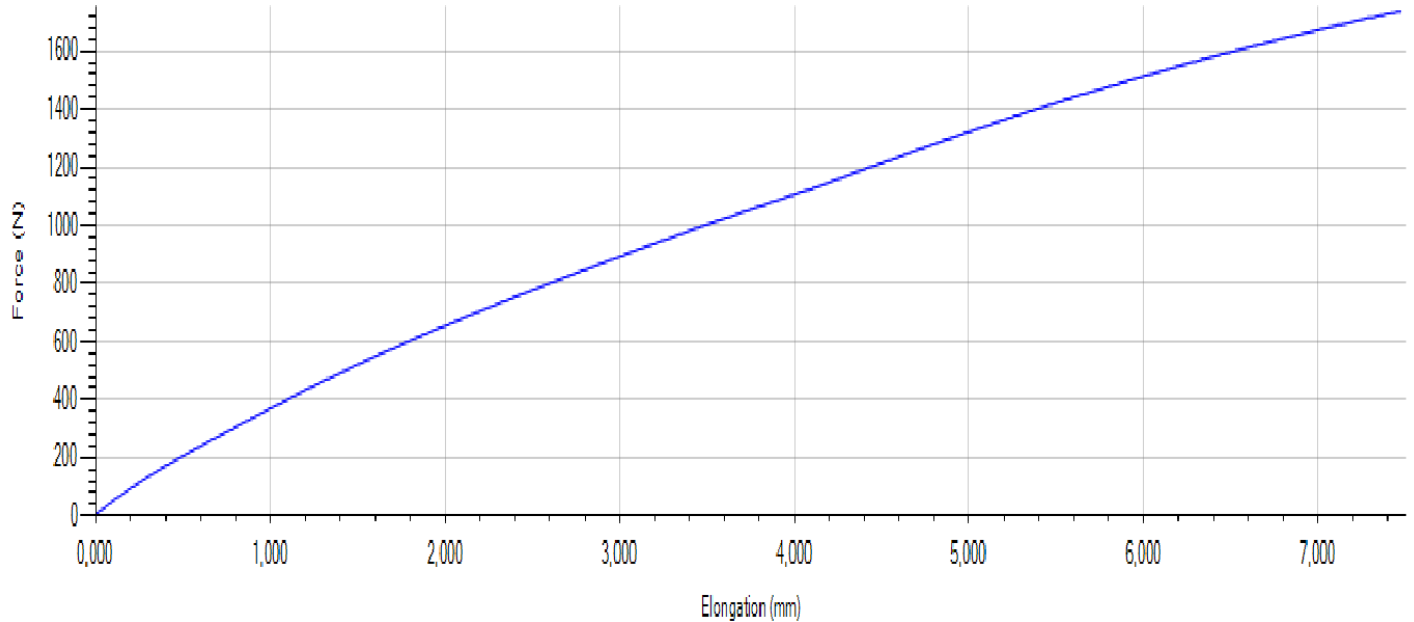
— Test 1

Polypropylene
Pin Tool Segitiga (sample 2)

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 11:43
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 7,475 mm

Force : 1736,6 N



— Test 1

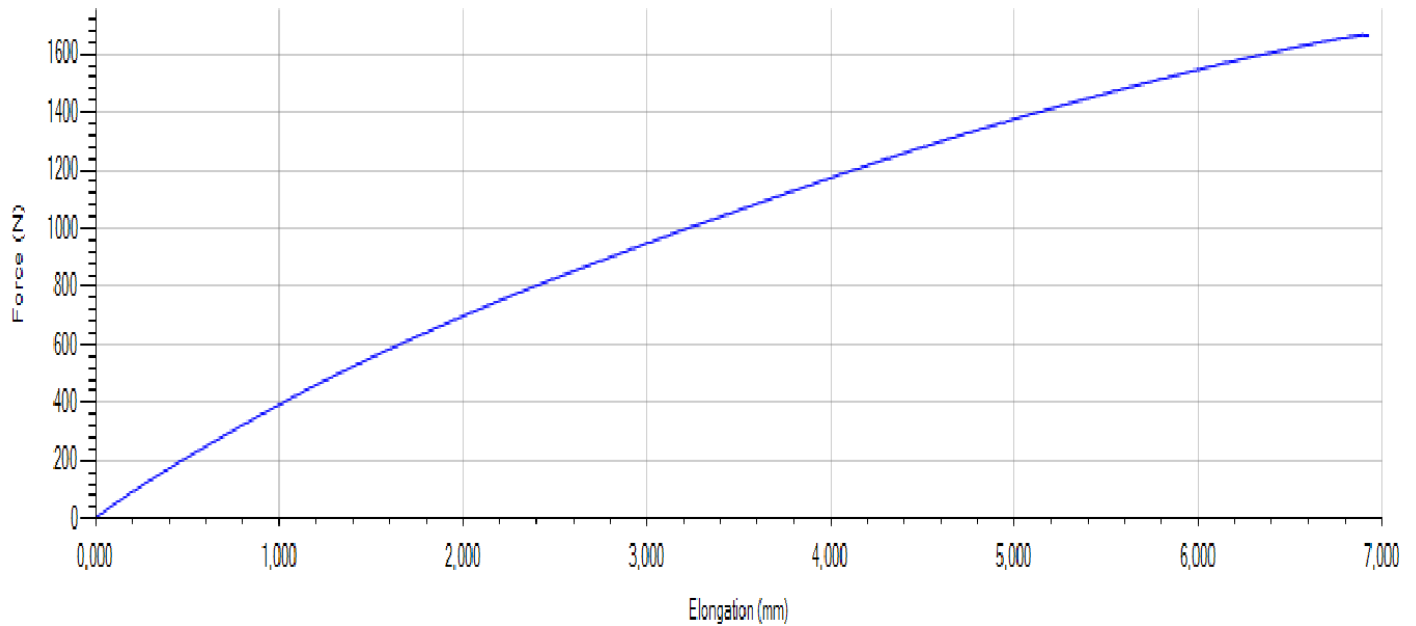
Polypropylene

Pin Tool Silinder Ulir (sample 1)

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 11:22
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 6,893 mm

Force : 1667,3 N



— Test 1

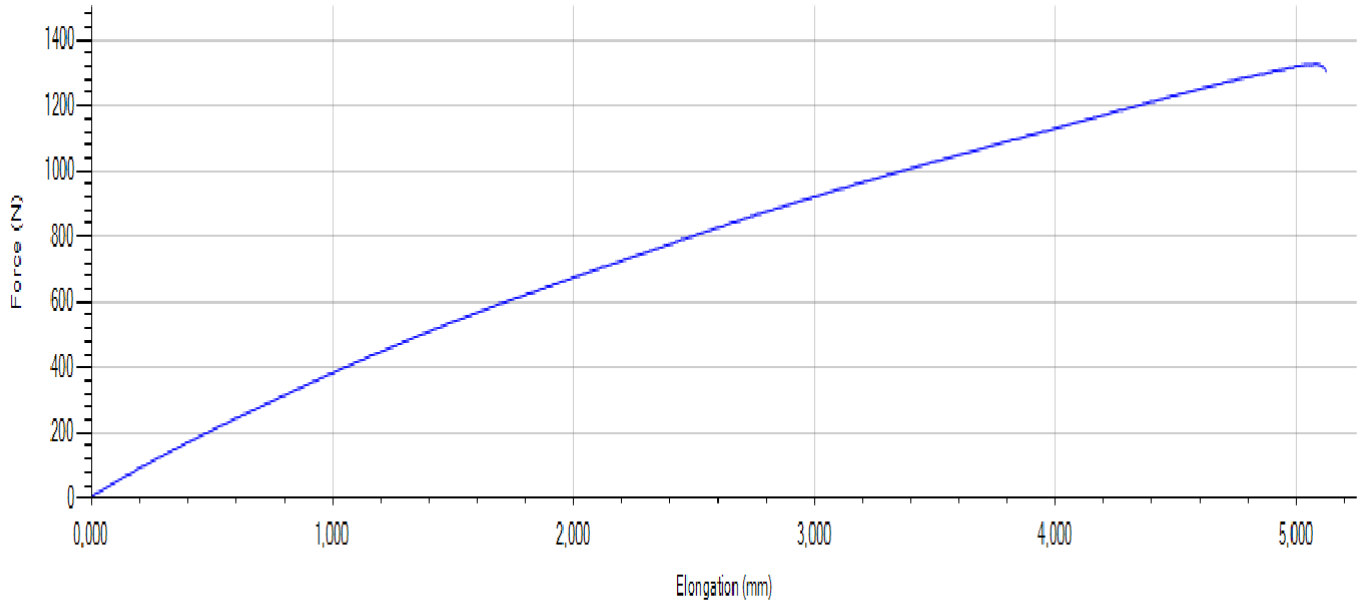
Polypropylene

Pin Tool Silinder Ulir (sample 2)

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 11:28
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 5,081 mm

Force : 1326,2 N



— Test 1

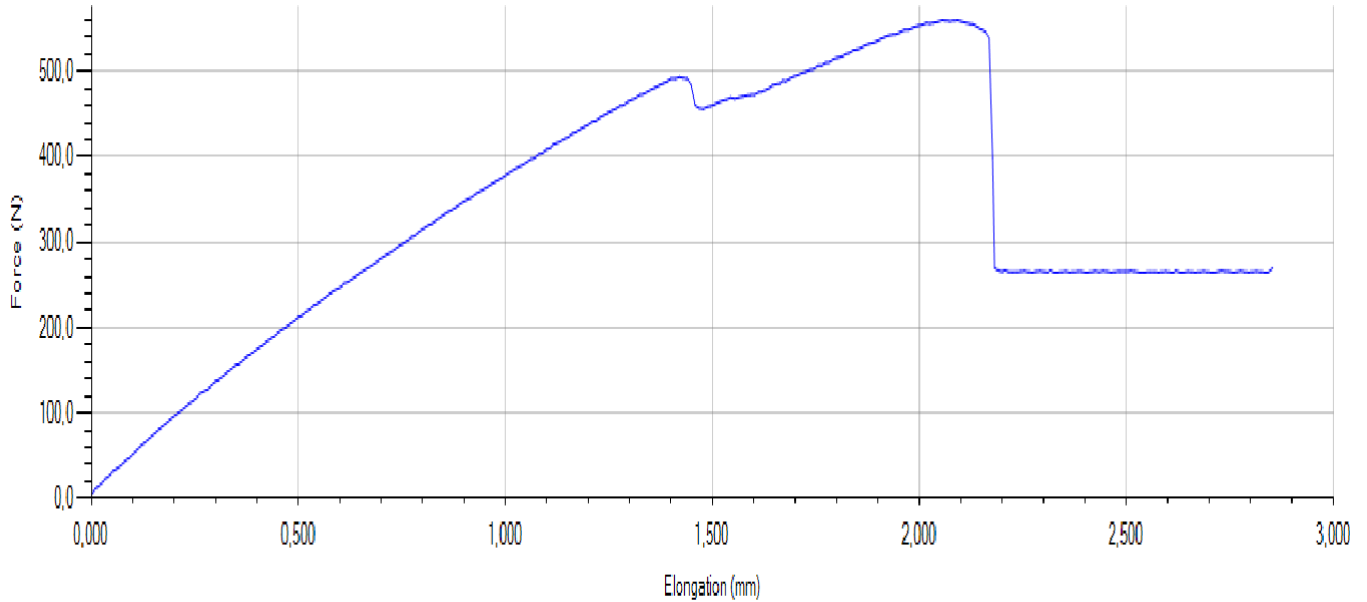
Polypropylene

Pin Tool Silinder runcing (sample 1)

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 12:15
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 2,054 mm

Force : 560,2 N



— Test 1

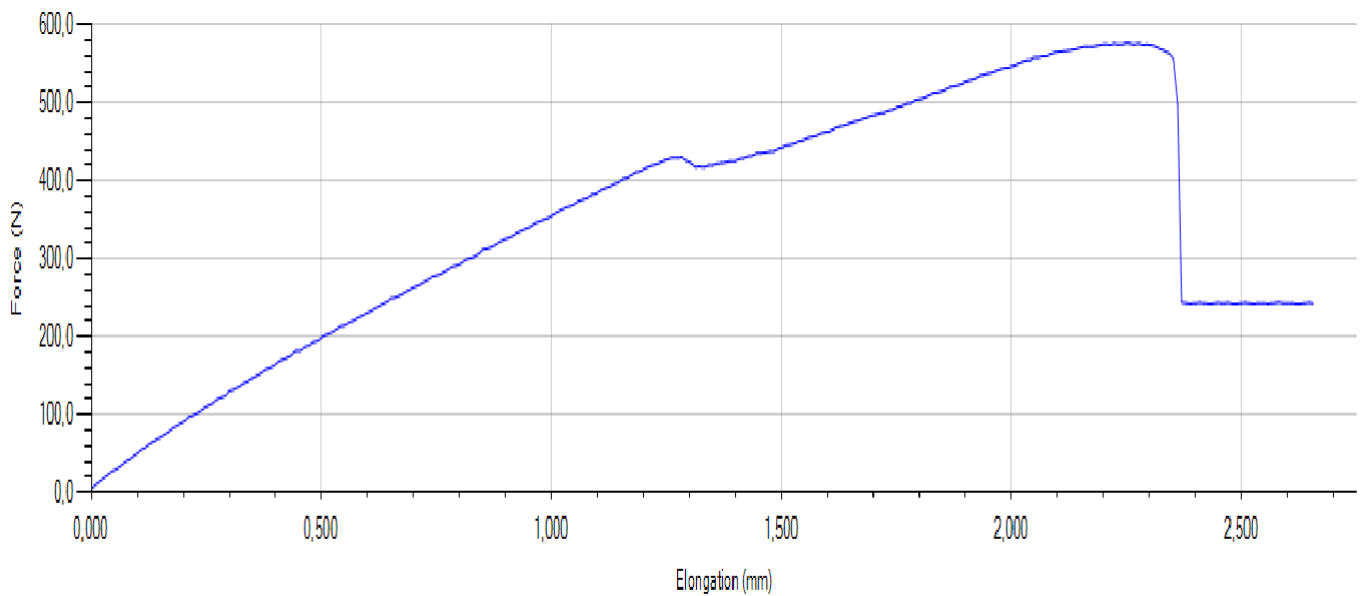
Polypropylene

Pin Tool Silinder runcing (sample 2)

Ref 1: Test Name : ASTM D638 komposit
Ref 2: Test Type : Tensile
Ref 3: Test Date : 29/04/2019 12:18
Test Speed : 10 mm/min
Pretension : 5 N
Sample Length : 120 mm

Elongation : 2,247 mm

Force : 576,6 N



— Test 1

PENGARUH VARIASI BENTUK PIN TOOL TERHADAP SIFAT MEKANIK PADA PENGELASAN FRICTION STIR WELDING POLYPROPYLENE (PP)

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