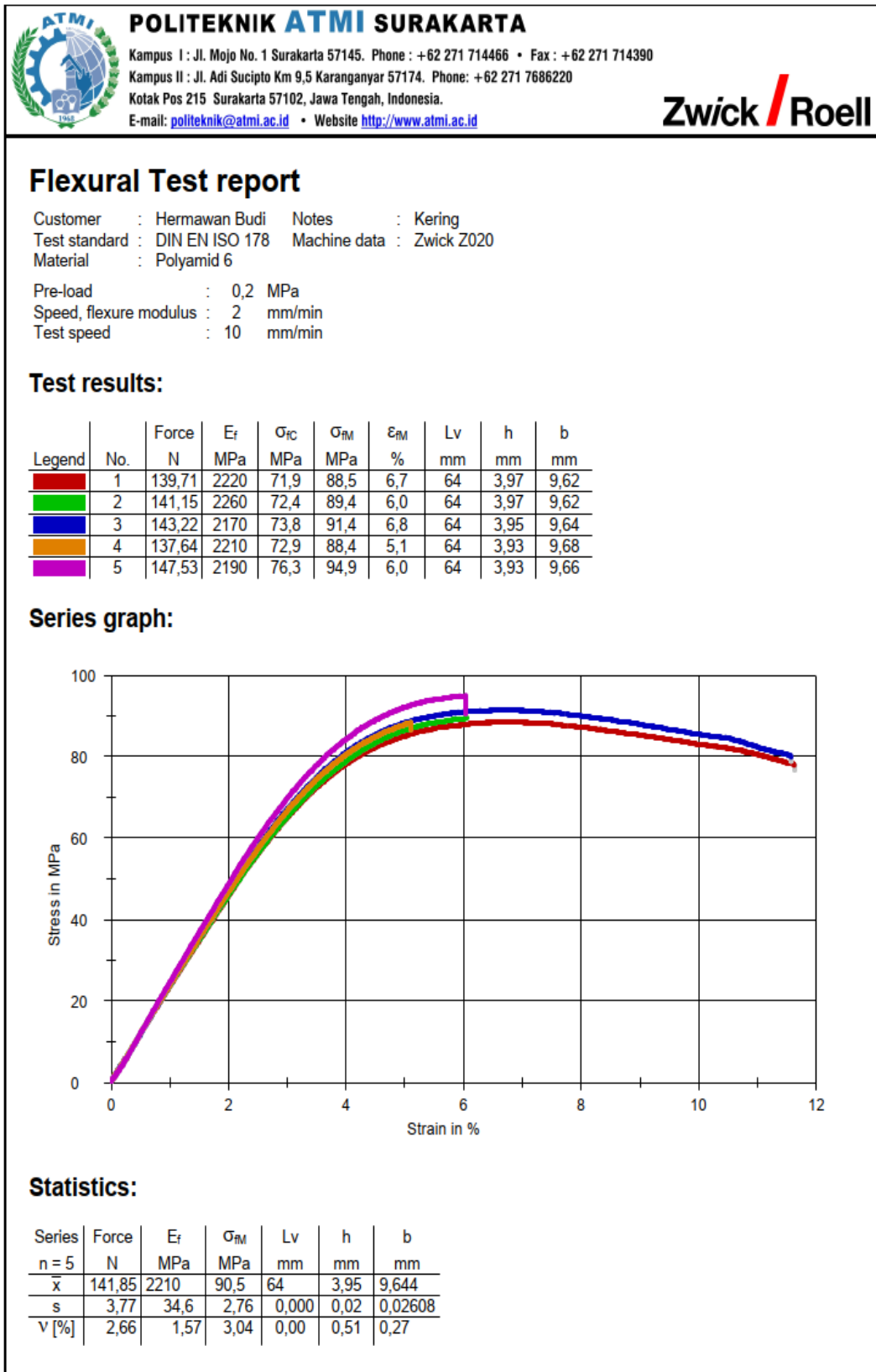


LAMPIRAN





POLITEKNIK ATMI SURAKARTA

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Zwick / Roell

Flexural Test report

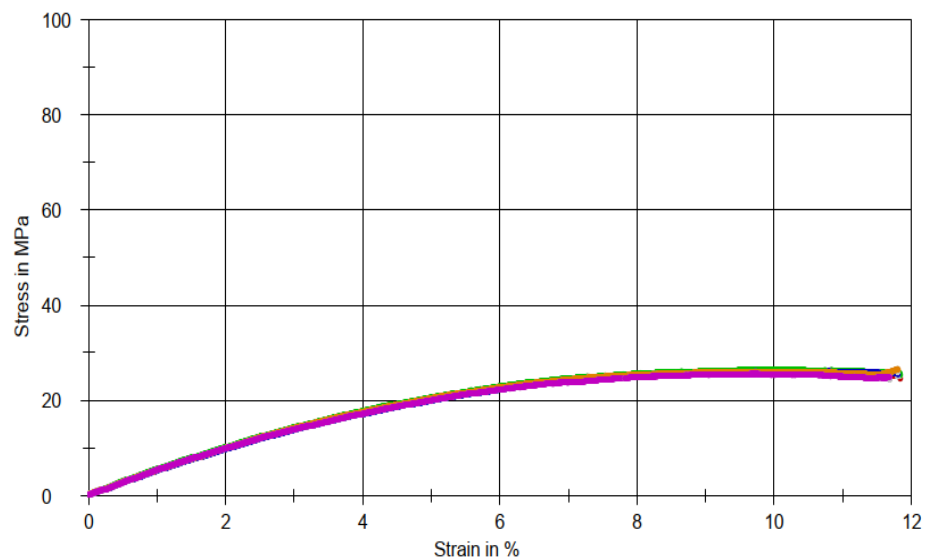
Customer : Hermawan Budi Notes : Uap
 Test standard : DIN EN ISO 178 Machine data : Zwick Z020
 Material : Polyamid 6

Pre-load : 0,2 MPa
 Speed, flexure modulus : 2 mm/min
 Test speed : 10 mm/min

Test results:

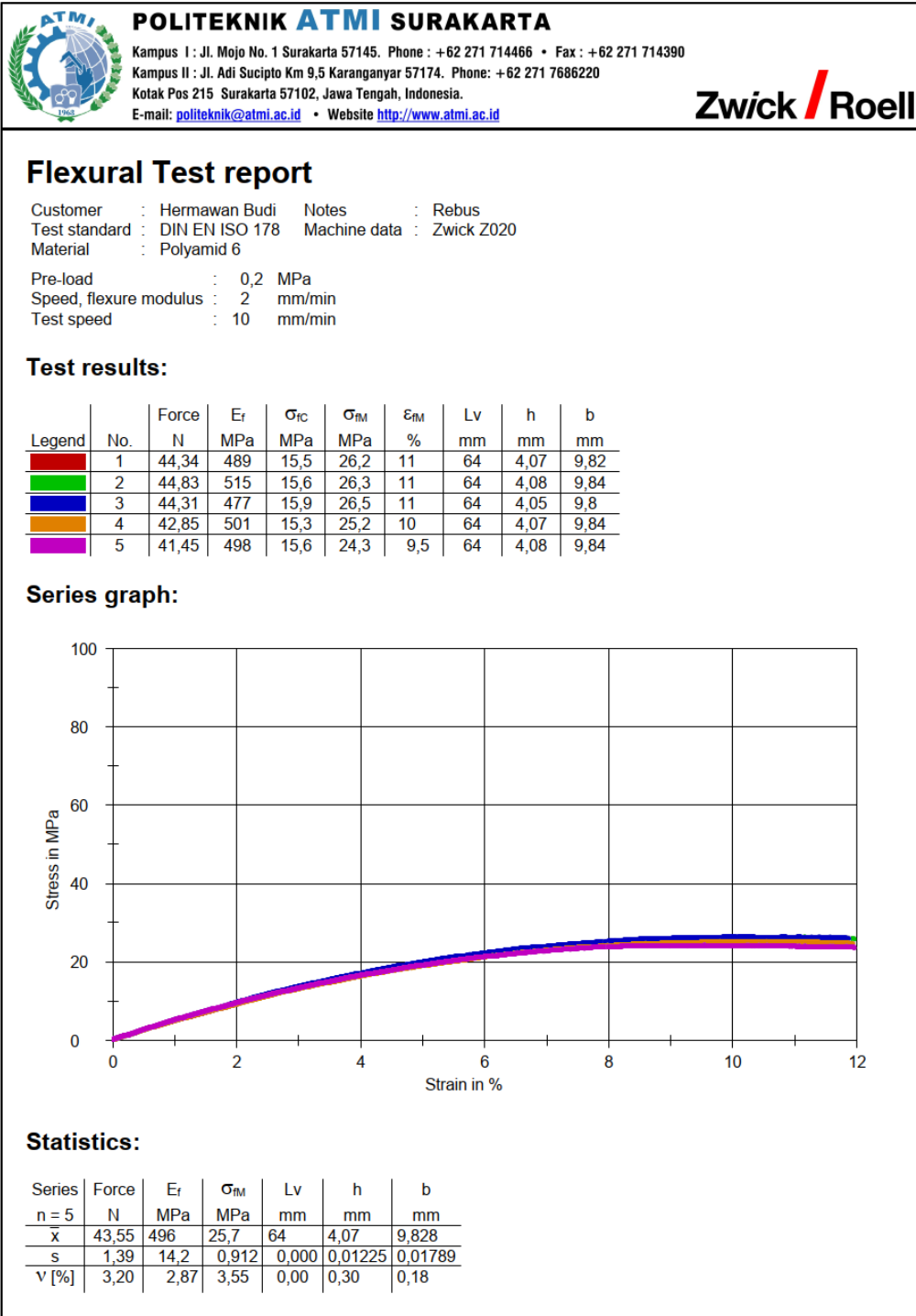
Legend	No.	Force N	E_f MPa	σ_{fc} MPa	σ_{fm} MPa	ϵ_{fm} %	Lv mm	h mm	b mm
Red	1	43,12	531	16,0	25,9	9,8	64	4,04	9,8
Green	2	43,98	530	16,4	26,5	9,9	64	4,04	9,76
Blue	3	43,29	489	15,8	26,1	10	64	4,03	9,8
Orange	4	43,94	502	16,2	-	-	64	4,03	9,78
Purple	5	41,78	482	15,6	25,6	9,7	64	3,99	9,86

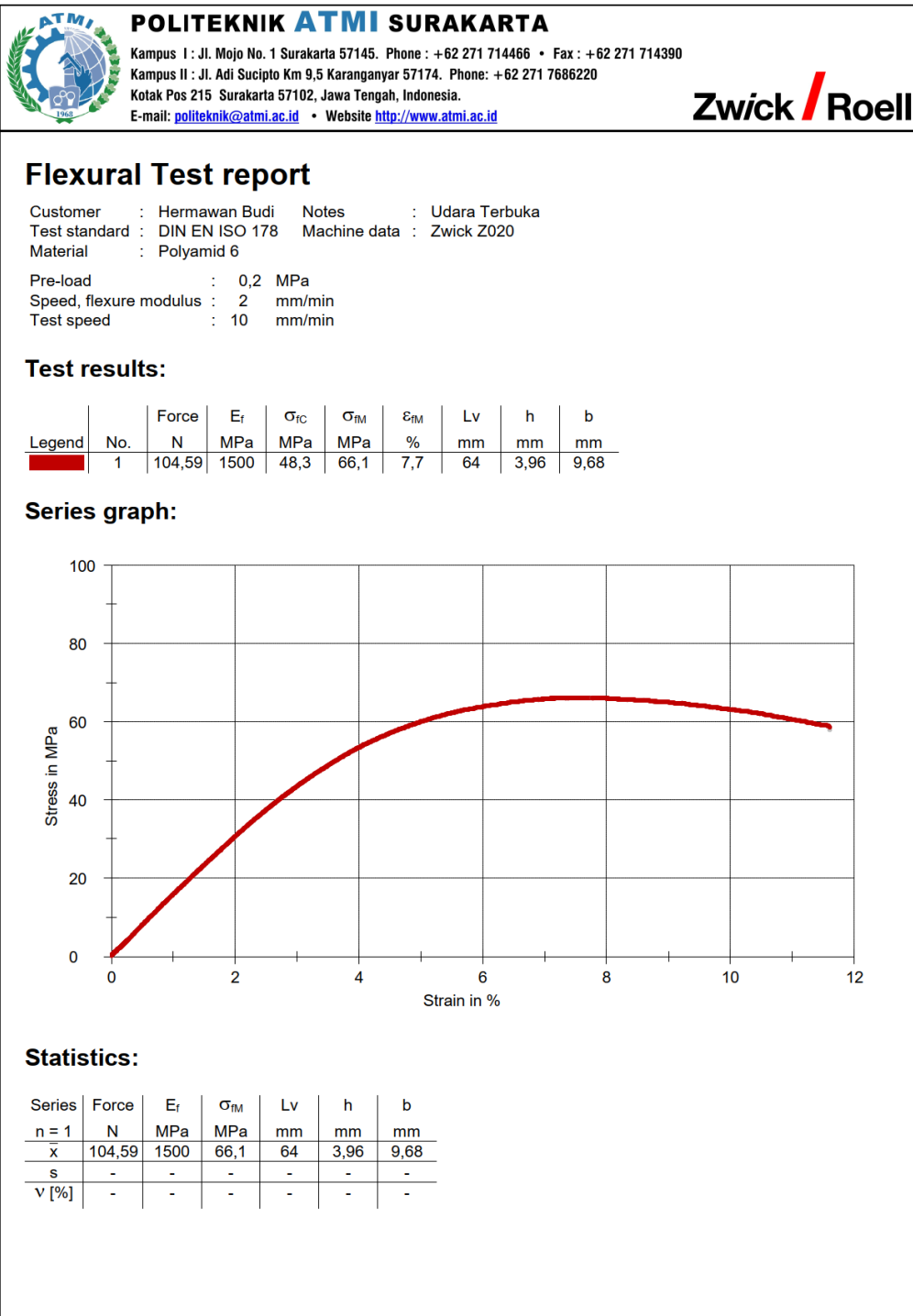
Series graph:



Statistics:

Series	Force N	E_f MPa	σ_{fm} MPa	Lv mm	h mm	b mm
n = 5						
\bar{x}	43,22	507	26,0	64	4,026	9,8
s	0,89	22,9	0,402	0,000	0,02074	0,03742
v [%]	2,07	4,52	1,54	0,00	0,52	0,38







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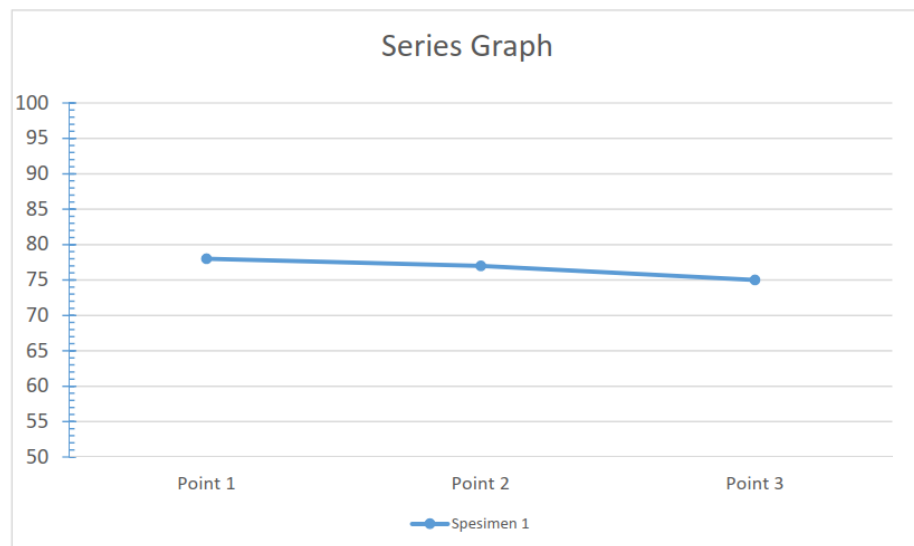


Hardness Test Report

Customer : Hermawan Budi
 Material : Polyamid 6 Kering
 Standart : Shore D

Result

	Point 1	Point 2	Point 3
Spesimen 1	78	77	75



Statistics:

Series	Shore D
x	76,67
s	1,5
v [%]	1,96



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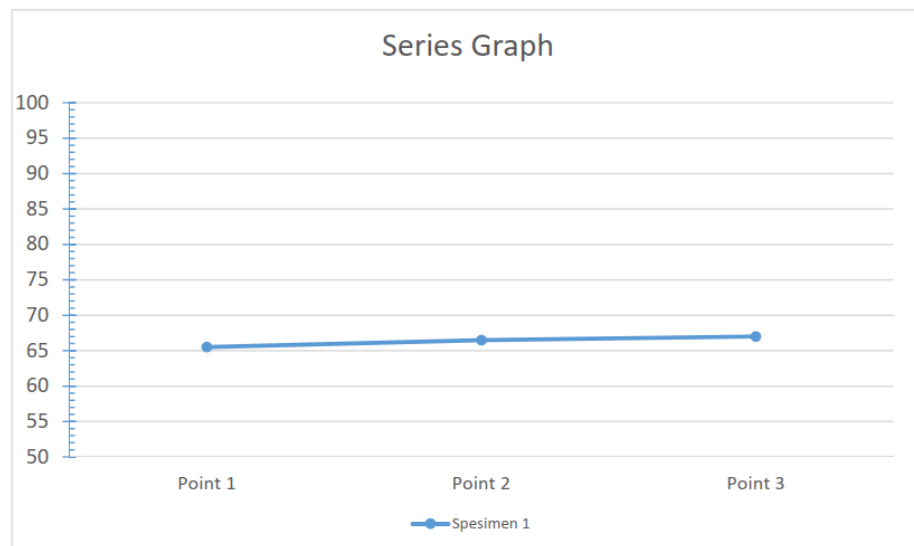


Hardness Test Report

Customer : Hermawan Budi
 Material : Polyamid 6 Uap
 Standart : Shore D

Result

	Point 1	Point 2	Point 3
Spesimen 1	65,5	66,5	67



Statistics:

Series	Shore D
x	66,33
s	0,75
v [%]	1,13


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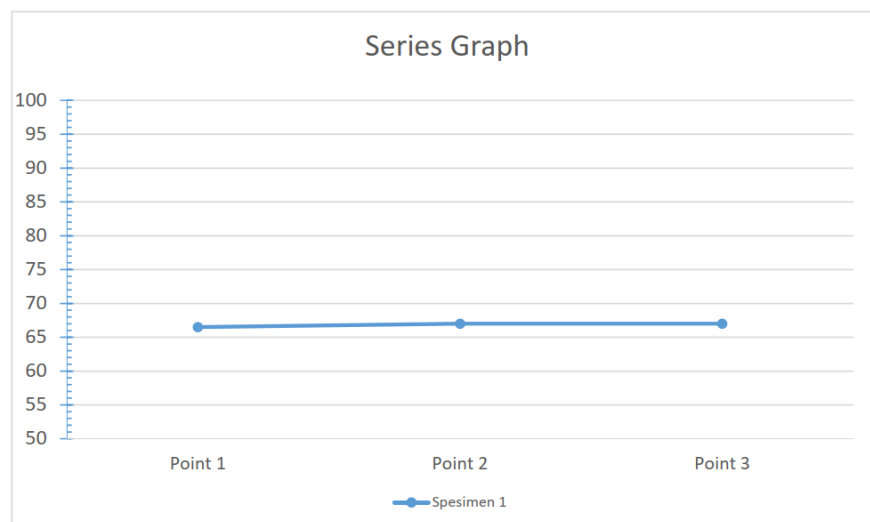


Hardness Test Report

Customer : Hermawan Budi
 Material : Polyamid 6 Rebus
 Standart : Shore D

Result

	Point 1	Point 2	Point 3
Spesimen 1	66,5	67	67



Statistics:

Series	Shore D
x	66,83
s	0,25
v [%]	0,37


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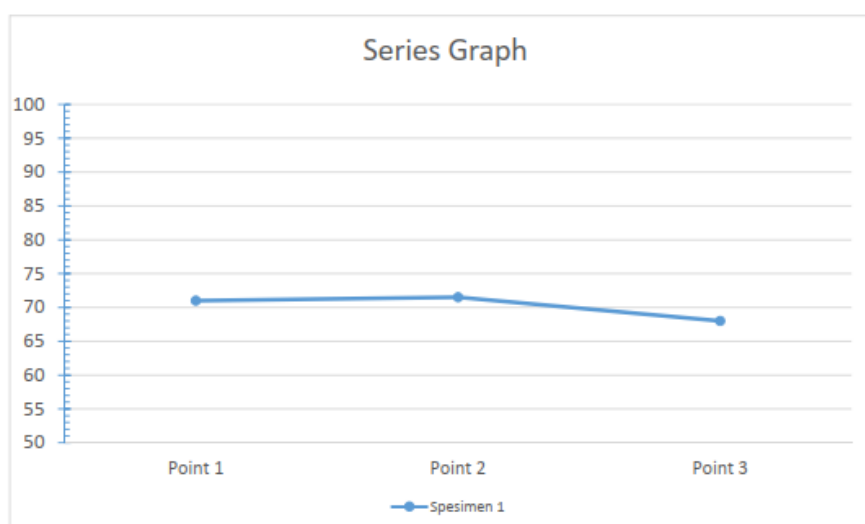


Hardness Test Report

Customer : Hermawan Budi
 Material : Polyamid 6 Udara Terbuka
 Standart : Shore D

Result

	Point 1	Point 2	Point 3
Spesimen 1	71	71,5	68



Statistics:

Series	Shore D
x	70,17
s	2
v [%]	2,85