



PUSAT PENELITIAN KARET
Indonesian Rubber Research Institute
LABORATORIUM PENGUJI
Testing Laboratory



Jl. Salak No. 1 Bogor 16128 Indonesia | Phone : (0251) 8319817 – 8352732 | Fax : (0251) 8324047
Email : ppkbogor@puslitkaret.co.id; ppkbogor@gmail.com | web : www.puslitkaret.co.id

CERTIFICATE OF TESTING
Sample Number MT.LU.01.23.10.454 (1)

Type of Sample : " Conveyor Belt "
Type of Sample Analyzed : *Vulcanizate*
Request from : Rubbex Conveyors & Engineering
Address : Rukan CBD, Jl. Green Lake City Boulevard No.69, Blok.C,
RT.001/RW.001, Gondrong, Kec. Cipondoh, Kota Tangerang, Banten,
15146
Reference number/ date : -/-
Received : October 04, 2023
Finished : October 16, 2023

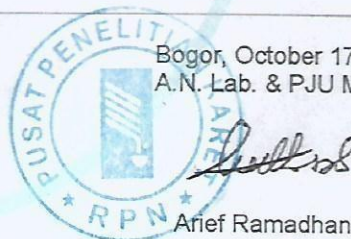
Properties	Test Method ASTM	Result		
Hardness, Shore A	D.2240-15	1		
Tensile strength (Isotropic), MPa	D.412-16	70		
Elongation at break, %	D.412-16	21.5		
After aging at 70°C, 168 hours. (ASTM D.573-04(2015))		430		
• Change in Hardness, point	D.2240-15	+ 2		
• Change in Tensile Strength, %	D.412-16	- 7.55		
• Change in Elongation at break, %	D.412-16	- 13.79		
Specific gravity, g/cm ³	D.297-15	1.205		
Abrasion resistance, DIN,mm ³	D.5963-04(ra2015)	120.3		
Adhesion test, kN/m	ASTM D.413-98(2013)	Top Cover To Ply	Ply to ply	Bottom Cover to ply
		7.75	10.57	6.61
Flame Resistance	*PPK	Combustion [#]		

Note : */ Not accredited

[#] / The test sample burns for more 2 minutes after the burner has been removed.

VALID FOR TESTED SAMPLE

NOT BE COPIED



Bogor, October 17, 2023
A.N. Lab. & PJU Manager

Arief Ramadhan.M.Si

Certificate number : 554 F 2023

DISCLAIMER:

**The Sample has been provided
by the Customer**



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CERTIFICATE OF TESTING
Sample Number MT.LU.01.23.10.454 (2)

Type of Sample : " Conveyor Belt "
Type of Sample Analyzed : *Vulcanizate*
Request from : Rubbex Conveyors & Engineering
Address : Rukan CBD, Jl. Green Lake City Boulevard No.69, Blok.C,
RT.001/RW.001, Gondrong, Kec. Cipondoh, Kota Tangerang, Banten,
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Reference number/ date : -/
Received : October 04, 2023
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Properties	Test Method ASTM	Result		
Hardness, Shore A	D.2240-15	2		
Tensile strength (Isotropic), MPa	D.412-16	72		
Elongation at break, %	D.412-16	23.2		
After aging at 70°C, 168 hours. (ASTM D.573-04(2015))		440		
• Change in Hardness, point	D.2240-15	+ 2		
• Change in Tensile Strength, %	D.412-16	- 14.48		
• Change in Elongation at break, %	D.412-16	- 22.58		
Specific gravity, g/cm ³	D.297-15	1.230		
Abrasion resistance, DIN,mm ³	D.5963-04(ra2015)	148.6		
Adhesion test, kN/m	ASTM D.413-98(2013)	Top Cover To Ply	Ply to ply	Bottom Cover to ply
		7.18	10.57	6.96
Flame Resistance	*PPK	Combustion ^{##}		

Note : */ Not accredited

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CERTIFICATE OF TESTING
Sample Number MT.LU.01.23.10.454 (3)

Type of Sample : " Conveyor Belt "
Type of Sample Analyzed : Vulcanizate
Request from : Rubbex Conveyors & Engineering
Address : Rukan CBD, Jl. Green Lake City Boulevard No.69, Blok.C,
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15146
Reference number/ date : -/-
Received : October 04, 2023
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Properties	Test Method ASTM	Result		
Hardness, Shore A	D.2240-15	3		
Tensile strength (Isotropic), MPa	D.412-16	73		
Elongation at break, %	D.412-16	21.3		
After aging at 70°C, 168 hours. (ASTM D.573-04(2015))		450		
• Change in Hardness, point	D.2240-15	+ 2		
• Change in Tensile Strength, %	D.412-16	- 12.97		
• Change in Elongation at break, %	D.412-16	-24.24		
Specific gravity, g/cm ³	D.297-15	1.207		
Abrasion resistance, DIN,mm ³	D.5963-04(ra2015)	108.1		
Adhesion test, kN/m	ASTM D.413-98(2013)	Top Cover To Ply	Ply to ply	Bottom Cover to ply
		7.07	6.42	7.16
Flame Resistance	*PPK	Combustion [#]		

Note : */ Not accredited

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CERTIFICATE OF TESTING
Sample Number MT.LU.01.23.10.454 (4)

Type of Sample : " Conveyor Belt "
Type of Sample Analyzed : *Vulcanizate*
Request from : Rubbex Conveyors & Engineering
Address : Rukan CBD, Jl. Green Lake City Boulevard No.69, Blok.C,
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15146
Reference number/ date : -/
Received : October 04, 2023
Finished : October 16, 2023

Properties	Test Method ASTM	Result		
		4		
Hardness, Shore A	D.2240-15	70		
Tensile strength (Isotropic), MPa	D.412-16	22.5		
Elongation at break, %	D.412-16	450		
After aging at 70°C, 168 hours. (ASTM D.573-04(2015))				
• Change in Hardness, point	D.2240-15	+ 2		
• Change in Tensile Strength, %	D.412-16	- 5.43		
• Change in Elongation at break, %	D.412-16	- 22.22		
Specific gravity, g/cm³	D.297-15	1.206		
Abrasion resistance, DIN,mm³	D.5963-04(ra2015)	91.8		
Adhesion test, kN/m	ASTM D.413-98(2013)	Top Cover To Ply	Ply to ply	Bottom Cover to ply
		7.00	8.13	6.16
Flame Resistance	*PPK	Combustion ^{##}		

Note : */ Not accredited

^{##}/ The test sample burns for more 2 minutes after the burner has been removed.

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Certificate number : 557 F 2023
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CERTIFICATE OF TESTING
Sample Number **MT.LU.01.23.10.454 (5)**

Type of Sample : " Conveyor Belt "
Type of Sample Analyzed : *Vulcanizate*
Request from : Rubbex Conveyors & Engineering
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15146
Reference number/ date : -/-
Received : October 04, 2023
Finished : October 16, 2023

Properties	Test Method ASTM	Result		
Hardness, Shore A	D.2240-15	5		
Tensile strength (Isotropic), MPa	D.412-16	73		
Elongation at break, %	D.412-16	22.8		
After aging at 70°C, 168 hours. (ASTM D.573-04(2015))		460		
• Change in Hardness, point	D.2240-15	+ 2		
• Change in Tensile Strength, %	D.412-16	- 4.29		
• Change in Elongation at break, %	D.412-16	- 20.00		
Specific gravity, g/cm ³	D.297-15	1.225		
Abrasion resistance, DIN,mm ³	D.5963-04(ra2015)	133.9		
Adhesion test, kN/m	ASTM D.413-98(2013)	Top Cover To Ply	Ply to ply	Bottom Cover to ply
		7.20	8.08	7.38
Flame Resistance	*PPK	Combustion [#]		

Note : */ Not accredited

[#]/ The test sample burns for more 2 minutes after the burner has been removed.

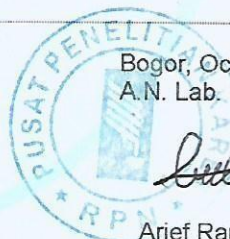
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Certificate number : 558 F 2023

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A.N. Lab. & PJU Manager

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