

KUMHO PETROCHEMICAL

CERTIFICATE OF ANALYSIS

*beyond
the best*

Ulsan Synthetic Rubber Plant
#64, Sanggae-ro, Nam-gu, Ulsan 44786, Korea
Tel : 82-52-259-6050~5 / Fax: 82-52-259-6053

Issuing Date	: 2024.10.28	Certification No	: URU241001296
User	:	Order No	:
Grade	: SBR1502 1.05TON UF-METAL BOX(MB5)	Load No	: 83420897
Quantity	: 158,550 (KG)	Production Date	: 2024.10.06
Lot No.	: 241006	Shelf Life	: 2025.10.06

NO.	Analysis Item	Unit	Spec.	Results	Test Method
1	ETA EXTRACTION	%	4.8 ~ 7.8	6.3	ASTM D5774
2	ELONGATION 35min	%	Min. 290	380.0	ASTM D412
3	VOLATILE MATTER	%	Max. 0.5	0.19	ASTM D5668
4	ASH CONTENT	%	Max. 0.8	0.30	ASTM D5667
5	ORGANIC ACID	%	4.8 ~ 7	5.73	ASTM D5774
6	SOAP	%	Max. 0.5	0.02	ASTM D5774
7	BOUND ST	%	22.5 ~ 24.5	23.1	ASTM D5775
8	RAW MV (ML1+4, 100℃)	—	47 ~ 57	51.6	ASTM D1646 (Massed)
9	COMP. MV (ML1+4, 100℃)	—	Max. 89	76.0	ASTM D1646 (Massed)
10	TENSILE STRENGTH 35min	kgf/cm ²	Min. 260	276.0	ASTM D412
11	300% MODULUS 35min	kgf/cm ²	190 ~ 230	204.0	ASTM D412

REFERENCE

I hereby certify that the result of analysis conforms to our standard specification

**** KKPC Global Certified Systems**

[Quality] ISO 9001, IATF 16949

[Environment] ISO 14001, ISO45001

ckbae@kkpc.com
domestic_1210



Bae Chang Kyu

General Manager, QA Team
Ulsan Synthetic Rubber Plant

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Issuing Date	: 2024.10.28	Certification No	: URU241001296
User	:	Order No	:
Grade	: SBR1502 1.05TON UF-METAL BOX(MB5)	Load No	: 83420897
Quantity	: 21,000 (KG)	Production Date	: 2024.10.06
Lot No.	: 241006	Shelf Life	: 2025.10.06

NO.	Analysis Item	Unit	Spec.	Results	Test Method
1	ETA EXTRACTION	%	4.8 ~ 7.8	6.3	ASTM D5774
2	ELONGATION 35min	%	Min. 290	380.0	ASTM D412
3	VOLATILE MATTER	%	Max. 0.5	0.24	ASTM D5668
4	ASH CONTENT	%	Max. 0.8	0.30	ASTM D5667
5	ORGANIC ACID	%	4.8 ~ 7	5.73	ASTM D5774
6	SOAP	%	Max. 0.5	0.02	ASTM D5774
7	BOUND ST	%	22.5 ~ 24.5	23.1	ASTM D5775
8	RAW MV (ML1+4, 100℃)	—	47 ~ 57	51.5	ASTM D1646 (Massed)
9	COMP. MV (ML1+4, 100℃)	—	Max. 89	76.0	ASTM D1646 (Massed)
10	TENSILE STRENGTH 35min	kgf/cm ²	Min. 260	276.0	ASTM D412
11	300% MODULUS 35min	kgf/cm ²	190 ~ 230	204.0	ASTM D412

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Issuing Date	: 2024.10.28	Certification No	: URU241001296
User	:	Order No	:
Grade	: SBR1502 1.05TON UF-METAL BOX(MB5)	Load No	: 83420897
Quantity	: 122,850 (KG)	Production Date	: 2024.10.07
Lot No.	: 241007	Shelf Life	: 2025.10.07

NO.	Analysis Item	Unit	Spec.	Results	Test Method
1	ETA EXTRACTION	%	4.8 ~ 7.8	6.7	ASTM D5774
2	ELONGATION 35min	%	Min. 290	380.0	ASTM D412
3	VOLATILE MATTER	%	Max. 0.5	0.24	ASTM D5668
4	ASH CONTENT	%	Max. 0.8	0.30	ASTM D5667
5	ORGANIC ACID	%	4.8 ~ 7	5.65	ASTM D5774
6	SOAP	%	Max. 0.5	0.02	ASTM D5774
7	BOUND ST	%	22.5 ~ 24.5	23.6	ASTM D5775
8	RAW MV (ML1+4, 100℃)	—	47 ~ 57	50.5	ASTM D1646 (Massed)
9	COMP. MV (ML1+4, 100℃)	—	Max. 89	76.0	ASTM D1646 (Massed)
10	TENSILE STRENGTH 35min	kgf/cm ²	Min. 260	276.0	ASTM D412
11	300% MODULUS 35min	kgf/cm ²	190 ~ 230	204.0	ASTM D412

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