

DAEEUN CO., LTD.
 107-16, Seokpo-ro, Jangan-myeon, Hwaseong-si
 Gyeonggi-do,
 Korea



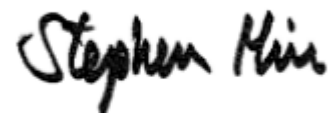
The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYAA17-50127
Product Name : Anti Bacterial_LLDPE
Item No./Part No. : N/A
Received Date : 2017. 09. 11
Test Period : 2017. 09. 11 to 2017. 09. 20
Test Result(s) : For further details, please refer to following page (s)

Result Summary

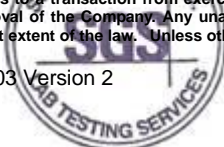
Test Requested	Conclusion
US FDA 21 CFR 177.1520(Olefin Polymer) (As per client's request)	-
Polyethylene	-
a) Density	PASS
b) Extractable fraction	PASS
c) Soluble fraction	PASS

SGS KOREA CO., LTD.



Stephen Min / Team Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).



Test Report

No. F690101/LF-CTSAYAA17-50127

Issued Date: 2017. 09. 20

Page 2 of 3

Sample No. : AYAA17-50127.001
 Sample Description : Anti Bacterial_LLDPE
 Item / Part No. : N/A
 Material : Polyethylene

Test result(s) :
 US FDA 21 CFR 177.1520 (Olefin Polymer)
 Method : With reference to 21 CFR 177.1520(c)(2.1)

a) Density

Test Item(s)	Result (g/mL)	Permissible Limit (g/mL)
Density at 24.2 °C	0.88	0.85-1.00
Comment	PASS	-

b) Extractable fraction

Sample extracted in n-hexane under the condition of 50 °C for 2 hours.

Test Item(s)	Result (% w/w)	Detection Limit (% w/w)	Permissible Limit (% w/w)
Extractable fraction	1.2	0.1	5.5
Comment	PASS	-	-

c) Soluble fraction

Sample dissolved in xylene under the condition of 25 °C for 2 hours.

Test Item(s)	Result (% w/w)	Detection Limit (% w/w)	Permissible Limit (% w/w)
Soluble fraction	2.9	0.1	11.3
Comment	PASS	-	-

Note : 1. g/mL = gram per milliliter
 2. % w/w = percentage of weight by weight
 3. °C = degree Celsius

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

Picture of Samples as Received:



*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).