

Certificate of Compliance for Food Contact Materials of GrainPro Bag

1° Packaging material description

Tough, transparent multilayer Polyethylene (PE) plus a barrier layer, 0.078 mm thick (0.003 inches), with one color flexo printing.

Chemical Product	<i>Polymeric substance</i>
Chemical Name	<i>Ethylene vinyl alcohol copolymer</i>
CAS Reg. No.	<i>6221-27-2</i>
Chemical Formula	<i>(CH₂-CH₂)_m-(CH₂-CH)_n-OH</i>
Other Ingredients	<i>None</i>

SUITABILITY

For GrainPro Bag Zipper and GrainPro Bag Twist & Tie:

- Portable, airtight, watertight and reusable
- Protects against mold growth and insect infestation
- Retains taste, color and aroma
- Maintains germination and vigor of stored seeds
- Stores coffee, cocoa, seeds and other dry agricultural commodities
- Preserves commodities and grains for a long period of time

2° Intended food contact

Type of food: *Seeds and other dry agricultural commodities*

Description of the suitability for food contact, suitable for:

- *Dry food*
- *Dry and non-fatty food*
- *Fatty food*

*Grainpro SuperGrainbags are intended to be sold worldwide.

a) FDA

DO COMPLY with the US Food and Drug Administration (FDA) 21 CFR 177.1520 Clause (c) (2.1) .

With reference to CFR Title 21, Pt 177.1520, below were actual values obtained:

Test Item(s)	Unit	Method	MDL	Result	Limit	Remarks
Maximum Extractable fraction (n-Hexane, 50 degC, 2hr.)	%	According to US FDA 21CFR 177.1520 (2019)	0.1	0.439	5.5	PASS
Maximum soluble fraction (xylene 25 degC, 2hr.)	%	According to US FDA 21CFR 177.1520 (2019)	0.1	2.53	11.3	PASS

b) EU10/2011 Overall Migration

DO COMPLY with the EU 1935/2004.

With reference to EU 10/2011, below were actual values obtained:

Test Item(s)	Unit	Method	MDL	Result	Limit	Remarks
Overall Migration (10% Ethanol) (3 rd Migration)	mg/d m2	With reference to EN 1186 (2002) (40 degC for 10days)	3.0	not detected	10	PASS

c) Inks/Varnish used in Grainpro Bag is water based.

DO COMPLY with the RoHS Directive 2002/95/EC




*With reference to the contents of inks/varnish used performed by IEC 22321-5 (2013) and performed by ICP-OES, UV-VIS, GC/MS the following results were obtained:

Sample Substance Name	Unit	MDL	Result	Remarks
Cadmium (Cd)	mg/kg	2	<i>not detected</i>	PASS
Lead (Pb)	mg/kg	2	<i>not detected</i>	PASS
Mercury (Hg)	mg/kg	2	<i>not detected</i>	PASS
Hexavalent Chromium Cr (VI)	mg/kg	8	<i>not detected</i>	PASS
Sum of PBBs	mg/kg	-	<i>not detected</i>	PASS
Sum of PBDEs	mg/kg	-	<i>not detected</i>	PASS
DEHP	mg/kg	50	<i>not detected</i>	PASS
BBP	mg/kg	50	<i>not detected</i>	PASS
DBP	mg/kg	50	<i>not detected</i>	PASS
DIBP	mg/kg	50	<i>not detected</i>	PASS

This certification is issued this **22nd day of May 2020** for any GrainPro customer requirement. The certificate is valid as of the date specified and it will be replaced in case of change of material composition.

Signed for and on behalf of

GrainPro Philippines, Inc.

DocuSigned by:

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GEMMA P. DIZON

QA Manager