



Covenant K108790/03

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Replaces K108790/02

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Riplastene, Riletilene, Rimaglene, Rinno-V-ene, Pcrpomix recycled agglomerates, flakes and granules purchased from plants certified EuCertPlast

STATEMENT BY KIWA

With this Covenant, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

Sermag Srl.

as specified in this Covenant and marked with the Kiwa®mark may, on delivery, be relied upon to comply with Kiwa Covenant manual K15013 dated 01-01-2016.

Ron Scheepers
Kiwa.

Publication of this certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

Kiwa Nederland B.V.
Sir Winston Churchillaan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands
Tel. +31 88 998 44 00
Fax +31 88 998 44 20
info@kiwa.nl
www.kiwa.nl

Producer
Sermag Srl.
Piazza XXV aprile n. 12,
20124, Milano
Italia
Tel: +39 0142 882393
sermag@sermag srl.com
www.sermag srl.com

1 OBJECTIVE

This Covenant covers the check of an approved system to produce agglomerates, flakes and granules recycled plastic waste meeting the agreed requirements examined during audit. The object of this Covenant is to verify the recycled content of the produced compounds from Eucertplast controlled sources (by ISO 14021).

2 DECLARATION

Kiwa declares that legitimate confidence exists that procedures for processing recycled material are implemented by the manufacturer; for a percentage re-used recycled material on a yearly base as stated below, for the products as described in this Covenant.

RILETILENE&RIMAGLENE&RIPLASTENE: used procedures result in a minimum of 100% of recycled material (%Rc).

RINNO-V-ENE used procedures result in a minimum of 60% of recycled material (%Rc) (74,4% by mass balance on total production of RINNO-V-ENE).

PCRPOMIX HDPE 3560 SL used procedures result in a minimum of 30% of recycled material (%Rc) (35% by mass balance).

PCRPOMIX HDPE 5540 L: used procedures result in a minimum of 50% of recycled material (%Rc) (55% by mass balance).

PCRPOMIX HDPE 7520 C: used procedures result in a minimum of 70% of recycled material (%Rc) (76% by mass balance).

PCRPOMIX HDPE 0308 L and HDPE 0308 D: used procedures result in a minimum of 95% of recycled material (%Rc) (96,15% by mass balance).

3 DEFINITIONS

Recycled material (RCM): The recycled material considered is expected to be the result of mechanical recycling.

Post-Industrial-Material (PIM): Material diverted from the waste stream during a manufacturing process. This is sometimes called pre-consumer material. Excluded rework material.

Post-Consumer-Material (PCM): Material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose. This includes returns of material from the distribution chain.

Rework material: Rework is reutilizing material that is generated in a process and capable of being reclaimed within the same process that generated it.

Mass balance: The difference in weight between incoming and outgoing materials in a production process.

Additives materials added to the recycled materials that are needed to facilitate the manufacture of final product – marking.

%Rc Mass percentage of recycled material used in products

4 PRODUCT SPECIFICATION

Product type

Range name	Plastic	Product name	origin ^{*)}	Content
Riletilene	Polyethylene LD	R-PE Film 0102	Post-Industrial	100%
	Polyethylene R-PE HD	Film 0103	Post-Industrial	100%
	Polyethylene R-PE HD	Monofilo 0312	Post-Industrial	100%
	Polyethylene LD	R-PE Film 0103 Lineare	Post-Industrial	100%
RIMAGLENE	Polypropylene	R-PP Film 0210	post -Industrial	100%

	Polypropylene	R-PP Iniezione 0206	post -Industrial	100%
	Polypropylene	R-PP Iniezione 1020	post -Industrial	100%
	Polypropylene	R-PP Iniezione 3050	post -Industrial	100%
	Polypropylene	R-PP HC HICA 300	post -Industrial	100%
	Polypropylene	R-PP Raffia 0307	post -Industrial	100%
	Polypropylene	R-PP Termo 0208	post -Industrial	100%
	Polypropylene	R-PP TNT 2040	post -Industrial	100%
	Polypropylene	R-PP TNT HF	post -Industrial	100%
	Polypropylene	R-POMIX PP Film 0210	post -Industrial	100%
	Polypropylene	R-POMIX PP Iniezione 0206	post -Industrial	100%
	Polypropylene	R-POMIX PP Iniezione 1020	post -Industrial	100%
	Polypropylene	R-PP Monofilo 0306	post -Industrial	100%
RIPLASTENE	Polypropylene	R-PP 1012 PCR	post-consumer	100%
	Polyethylene HD	R-PE HD 0308 PCR	post-consumer	100%
	Polyethylene LD	R-PE LD 0309 PCR	post-consumer	100%
	Polypropylene	R-PP Film 0210	post-consumer	100%
	Polypropylene	R-PP Iniezione 0206	post-consumer	100%
	Polypropylene	R-PP Iniezione 1020	post-consumer	100%
	Polypropylene	R-PP Iniezione 3050	post-consumer	100%
	Polypropylene	R-PP 0307 PCR	post-consumer	100%
	Polypropylene	R-PP Termo 0208	post-consumer	100%
	Polypropylene	R-PP TNT 2040	post-consumer	100%
	Polypropylene	R-POMIX PP 1012 PCR	post-consumer	100%
	Polypropylene	R-POMIX PP Film 0210	post-consumer	100%
	Polypropylene	R-POMIX Iniezione 0206	post-consumer	100%
	Polypropylene	R-POMIX Iniezione 1020 p	ost-consumer	100%
RINNO-V-ENE	Polyolefins	TPE-O 6010 P	Recycle content	>60%
	Polyolefins	TPE-O 9010 HP	Recycle content	>60%
	Polyolefins	TPE-O 9020 P	Recycle content	>60%
PCRPO MIX	Polyethylene HD	HDPE 3560 SL	Recycle content	>30%
	Polyethylene HD	HDPE 5540 L	Recycle content	>50%
	Polyethylene HD	HDPE 7520 C	Recycle content	>70%
	Polyethylene HD	HDPE 0308 L	Recycle content	>95%
	Polyethylene HD	HDPE 0308 D	Recycle content	>95%

Product characteristics:

Characteristics	Method	Frequency	Results
MFR	UNI EN ISO 1133	1 / batch	see material data sheet
Density	UNI EN ISO 1183	1 / batch	see material data sheet
Color	Visual	1 / batch	see material data sheet
Material content	DSC /IR	1 / batch	see material data sheet
Ash content	UNI EN ISO 3451	1 / batch	see material data sheet
Shape	Visual	1 / batch	see material data sheet
Granulometry	Hand screening	1 / batch	see material data sheet

Materials are Reach/Rohs compliant according EU Reach/Rohs Regulations

5 CALCULATION OF THE AMOUNT OF RECYCLED MATERIALS

The recycling percentage is calculated as the quotient of the weight amount of recycled material used and the weight of the net end product. This definition follows ISO 14021:2016.

The quantity recycled material expressed in % of the total weight used material:

$$\%Rc = ((PIM+PCM) / (PIM + PCM + \text{virgin material} + \text{additives})) \times 100$$

6 TOTAL QUALITY CONTROL

During the inspection visits the Kiwa inspector checks the internal document retention and record keeping system that the organization maintains, either in paper, electronic or other format, to support its quality systems.

Inspections must in any case cover the following:

- The IQCS (Internal Quality Control Schedule) of the supplier and the results of the quality controls;
- The required marking of the certified products;
- Are the required procedures followed?

7 FREQUENCY OF EXTERNAL INSPECTIONS

Kiwa shall execute inspections at the supplier to check the fulfilling of all obligations.

The Kiwa Committee Covenant decides about the inspection frequency.

For this Covenant the inspection frequency is fixed on 1 inspection per year.

8 CHAIN OF CUSTODY REQUIREMENTS

Traceability: A chronological record, set of records, or destination and source of records that provide documentary evidence of the sequence of activities that have affected at any time a specific operation, procedure or event. Also traceability refers to the completeness of the information and documentation about every step in a supply system.

Kiwa Covenant CVNT-Manual K15013

Recycle materials must be known for their origin and be checked for the validity of this origin. This can be done by statements, certificates, Covenants or self-investigation at the recycler. In case a system is available at the recycler, the validity of the certificate should be checked.

The recycled material used for the production of the products concerned, can be a mixture of post-industrial recycled material (PIM) and post-consumer recycled material (PCM).

Transparency: Transparency implies openness, communication and accountability, in such a way that it facilitates easy access to the necessary information concerning this Covenant.

Manufacturing process description: The manufacturer shall provide a detailed description of the manufacturing process and details also every input and output related to that process in great detail. Preferentially accompanied with a drawing or diagram.

9 MARKING

The product shall be provided with the following marks:

- Logo picture Kiwa Covenant;
- Manufacture's name, trade name;
- Material identification;
- Production code.

Location of the mark: on product or smallest packaging unit



10 BIBLIOGRAPHY

- ISO 14021: 2016

- KIWA Manual K15013 dated March 2017