

CERTIFICATE

Recyclability of Packaging Material Group

BASF SE

Carl-Bosch-Strasse 38

D-67056 Ludwigshafen am Rhein, Germany

The company receives the certification of recyclability for the following packaging materials.

Designation

PE-LD-based multilayer packaging films with Co-Polyamides (PA6/6.6) including $\leq 30\%$ by weight of PA6/6.6 made from PA6 and PA6.6 monomers with melting points $< 200^{\circ}\text{C}$

in coextruded polyethylene films, based on LDPE and/or LLDPE; packaging size $\geq \text{A5}$; with $\geq 0.5 \text{ g per g PA}$ of maleic anhydride-grafted PE as tie layer specified for PA/PE; *not including* printing inks, adhesives or other components that can affect the recyclability

Test result

The recyclability according to CHI standard amounts to:

$\geq 70\%$

The recyclability in individual countries amounts to:

Path	Recyclability	Scope			Recyclate (final product)
		$> \text{DIN A4}$	$> \text{DIN A5 and } \leq \text{DIN A4}$	$\leq \text{DIN A5}$	
Path 1: Plastic films / LDPE	$\geq 70\%$	AT, BE, DE, DK, ES, FI, FR, IE, IT, LU, NL, NO, PL, PT, SE, SI	BE, DE, ES, FR, IT, NL	BE, IT	LDPE regranulate Yield: 100 %

Test standard:

- Requirements and assessment catalogue of the cyclos-HTP Institute for EU-wide certification

The following reference processes, materials and applications are taken into consideration within the certification process:

- Detection as flexible PE packaging in state-of-the-art sorting plants
- Recyclate use for injection moulding and blown film applications.
- Test program based on CHI test method **CHI-C8-PEF-1** with the use of PCR-based LDPE recyclate as reference.

Within the certification process, conformity with the following standards was also checked:

- DIN EN 13430 with regard to material recyclability in the post-use phase; also integrated.

This certificate (No. 2187-2021-002631-W1) is valid until the **30/06/2024** (1 year upon issue) for the countries listed in brackets above; for the countries shown in *italics*, the existence of a recycling infrastructure cannot be assumed as predominant or the determined value of recyclability is below 50 %.

This certificate will lose validity in case of qualitative or quantitative changes of packaging components.

Aachen, dated 19/06/2023

Dr. Roland Bothor

Publicly appointed and sworn expert for packaging disposal
Chamber of Industry and Commerce, Aachen

The detailed results are documented in the corresponding test report (No. 2187-006-2021).



CHI | cyclos-HTP Institute

Institut cyclos-HTP GmbH
Maria-Theresia-Allee 35 - 52064 Aachen
phone: +49 (0) 241 / 949 00 - 0
fax: +49 (0) 241 / 949 00 - 49



ANNEX

to Certificate No. 2187-2021-002631

Document history

2187-2021-002631 Certificate - BASF PE-LD films with 30% PA6-66 (date: 23/11/2021)

- Original certificate document with test report No. 2187-002-2020

2187-2021-002631-W1 Certificate - BASF PE-LD films with 30% PA6-66 (date: 19/06/2023)

- Re-certification for one further year
 - Scope extended to further countries in path 1 for packaging sizes > DIN A4
 - Scope extended to packaging sizes > DIN A5 and ≤ DIN A4
 - Scope extended to packaging sizes ≤ DIN A5
 - For DK, IT, PL the existence of a recycling infrastructure cannot be assumed as predominant in path 1 for packaging sizes > DIN A4
 - For FR, IT the existence of a recycling infrastructure cannot be assumed as predominant in path 1 for packaging sizes > DIN A5 and ≤ DIN A4
 - For IT the existence of a recycling infrastructure cannot be assumed as predominant in path 1 for packaging sizes ≤ DIN A5
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