

# CERTIFICATE

## Recyclability of Packaging Material

**TOPAS Advanced Polymers GmbH**  
**Am Prime Parc 9**  
**65479 Raunheim | Germany**

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

### Designation

#### Cyclic Olefin Copolymers (COC)

- Polymers with norbornene contents  $\leq 50$  mol% and ethylene contents  $\geq 50$  mol%
- as blend component or layer in PP-based packaging applications

### Test result

**Assessment via paths:** Path 3: Polypropylene  
Path 7: Mixed Polyolefins / Mixed Plastics (flexible)

**Recyclates (final products):** PP and MPO Regranulates

Test standard / scope of application:

- Requirements and assessment catalogue of the institute cyclos-HTP** for EU-wide certification (state 14/09/2021) / Scope of validity according to nation states, see chapter 1
- DIN EN 13430** with regard to material recyclability in the post-use phase; also integrated

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

- Detection as PP packaging in state-of-the-art sorting plants
- Recyclate use for injection moulding applications
- Commercial PCR-based PP recyclate as reference
- Test program based on APR test protocol FILMS1-BG01 with the use of PCR-based PP recyclate as reference

According to the CHI standard the plastic material is a valuable material in the tested application and can be considered as:

## Fully Recyclable for PP and MPO Recycling

Collection and recycling structures for Path 3: **AT, BE, DE, DK, FR, IT, LU, NL, NO, SE, UK**

Collection and recycling structures for Path 7: **AT, DE, IT**

This certificate (No. 2171-2020-001720-W2) is valid until the **31/08/2023** (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. This certificate will lose validity in case of qualitative or quantitative changes of packaging components.

Aachen, dated 26/07/2022

  
  
Dr. Roland Bothor  
Publicly appointed and sworn expert for the IHK for packaging waste disposal  
Competent authority: IHK Aachen

**Institute cyclos - HTP**

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The detailed results are documented in the corresponding test report (No. 2171-002-2020).