FLEXIBLES

Coated Films

EUROPE

Elevate your packaging performance with *Ti*'s Coated Films

Solutions for better machinability, sealability and overall efficiency

PRODUCT PORTFOLIO

Coating Type	Product	Thickness µm	WVTR g/m²/d	OTR cm³/m²/d	Sealability MST°C	Typical Applications
Transparent Films						
Ac/Ac	QTA	20/25/30 35/40/50	5.8/4.7/3.8 3.3/3.0/2.8	n.a.	90°C	snack, bakery, confectionery in HFFS/VFFS/OW
Ac/LTS	QTL	20/25/30	5.8/4.7/3.8	n.a.	70°C	snack, bakery, confectionery, in HFFS only
Ac/Ac	EXTENDO® XQTA	25/30	3.0	n.a.	90°C	snack, bakery, confectionery personal care, household products in HFFS/VFFS/OW
Ac/LTS	EXTENDO® XQTL	25/30	3.0	n.a.	70°C	snack, bakery, confectionery personal care, household products in HFFS only
Ac/Gas Barrier	EXTENDO® D758	20	5.0	0.5	90°C	snack, bakery, confectionery, nuts, dried fruits, dry foods
White Voided Films						
Ac/Ac	QRA (0.74)	32/37/42	4.5/4.0/3.5	n.a.	90°C	snack, bakery, confectionery in HFFS/VFFS/OW
Ac/LTS	QRL (0.74)	32/37/42	4.5/4.0/3.5	n.a.	70°C	snack, bakery, confectionery in HFFS only

transparent films | white voided films

NEW COATED FILMS FOR FLEXIBLE PACKAGING

Coated films are advanced substrates with a specific lacquer applied on one or both sides, which can be the same or differentiated, used to add or enhance the functionalities of the BoPP film and make them long-lasting.

Taghleef's coated flexible packaging films offer improved seal properties, slip, barrier, optical and converting performance.

They are highly efficient on a variety of machines, producing flawless packaging with high gloss and low haze for eye catching designs and brand appeal.

They provide excellent barrier properties to aroma and mineral oils, superior oxygen and water vapor barriers, and are also potentially PVdC free.

Coated flexible films offer high and stable wettability along with high bonding properties for ink, adhesives, and cold seal. The coating layer enhances printability in various tested techniques, from traditional offset to digital.

Alternative raw material sources

Coated films can be made - upon request - with PP content from alternative sources:

reLIFE™
RECYCLED POLYPROPYLENE SOLUTIONS

Made with recycled content, the reLIFE™ portfolio includes **PCR Chemical Recycling (Food Contact Compliant, ISCC Plus Certified, Mass Balance Approach)**

b!oPP
BIOBASED POLYPROPYLENE FILMS

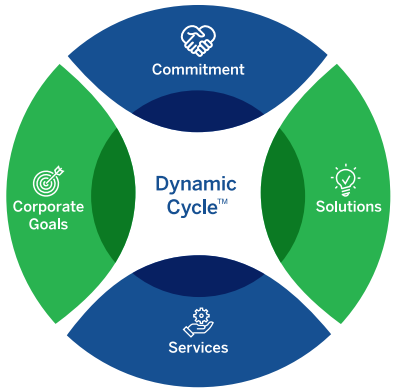
Bio PP Films derive from renewable resources of vegetable origin and are compliant with ISCC Plus Certification (Mass Balance Approach). At their end of life, these films can be recycled in the existing PP or polyolefin recycling streams.

Phthalate-free Flexible films

Phthalates are not intentionally added to Ti's BoPP film formulation. However some of these compounds could be present due to the production process of the polymer. Taghleef can offer, upon request, BoPP films manufactured with selected raw materials based on phthalate-free catalyst system.

DYNAMIC CYCLE

Together we Innovate for Future Generations



Dynamic Cycle™ is Taghleef's set of initiatives aimed to address **Sustainability** issues within and for our stakeholders. It translates into strategic choices, advanced know-how, a focused investment strategy and the most compliant portfolio.

It is Taghleef's **trusted consulting voice** that interacts with all its partners to contribute to the quality of life of generations to come.

Dynamic Cycle™ is Taghleef's **holistic approach to Sustainability** that encompasses not only Taghleef's Solutions and Services, but also its Corporate Goals and Commitment towards Sustainability.

Dynamic Cycle™ Solutions offer our customers access to **a wide range of Recycle-Ready and Innovative Film Solutions.**

This portfolio showcases Taghleef's range of Coated Films for Flexible Packaging Applications. Elevate your packaging performance with *Ti*'s coated films for better machinability, sealability and overall efficiency.

reDESIGN™

Elevate your Packaging Performance with *Ti*'s Coated Films



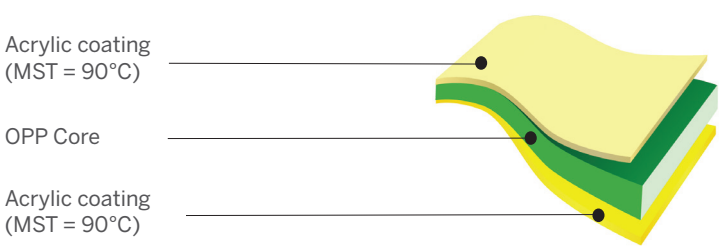
reDESIGN™ is a tailor-fit service for our customers as part of Dynamic Cycle™ initiative. Taghleef works closely with authorities, industry experts and certification bodies throughout the entire process to offer **Innovative and Recycle-Ready packaging solutions. With reDESIGN™**, Taghleef leads the switch from a traditional packaging structure to a solution that best meets customers' specific packaging requirements.

By partnering with Taghleef, together, we can discover ways to move to high-performing solutions that are aligned with Circular Economy principles.

With *Ti*'s coated films for flexible packaging applications, we provide you with wider options that suit the look you wish for and the performance you work with.

Acrylic Coated Films

Versatility in every flexible packaging form



MADE FOR RECYCLING interzero®

QTA

Standard Water Vapour Barrier
4.7g/m²/d (38°C, 90% RH)*

EXTENDO® XQTA

Improved Water Vapour Barrier
3.0g/m²/d (38°C, 90% RH)*

thickness 25 µm

BoPP Transparent film, both sides acrylic coated

- Excellent Optical Properties (gloss and haze)
- Excellent support for converting on both sides (rotogravure and flexographic printing, lamination), no decay in time
- Improved Aroma and Mineral Oil Barriers compared to a non-barrier film
- Combining consistent COF (no decay in time) and low minimum seal temperature on both sides, providing excellent machinability and versatility on HFFS, VFFS and over-wrapping processes

Market Application Examples

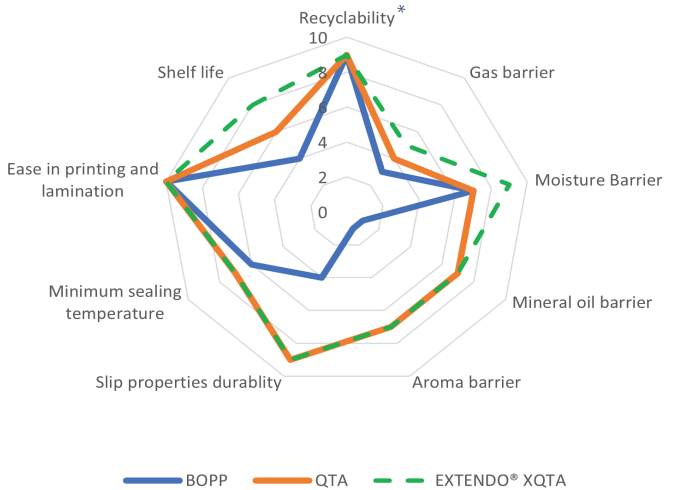
Low pressure seals in overwrapping application



Multipurpose with wide end-user application range



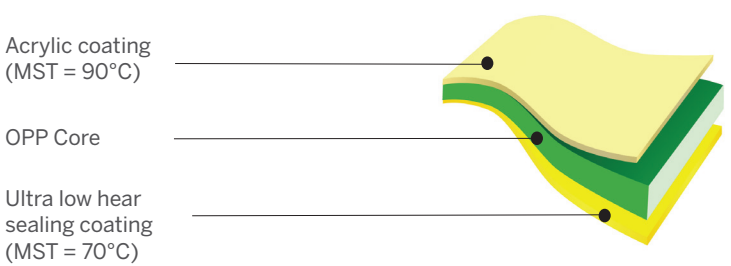
Typical Applications:
Dry Biscuits, bakery, snacks (bulk) bags or flow wrap, confectionery boxes over wrap



independent third-party certifications available upon request

LTS Coated Films

Solutions for High-speed packaging in HFFS



MADE FOR RECYCLING interzero®

QTL

Standard Water Vapour Barrier
4.7g/m²/d (38°C, 90% RH)*

EXTENDO® XQTL

Improved Water Vapour Barrier
3.0g/m²/d (38°C, 90% RH)*

thickness 25 µm

BoPP Transparent film, one side acrylic coated,
one side ultra low heat sealing coating

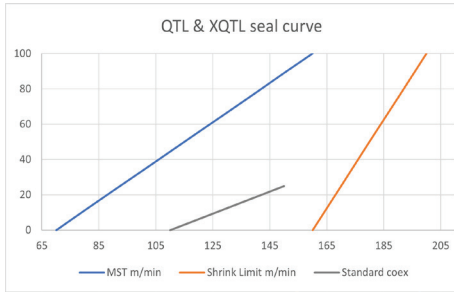
- Ultra wide sealing range with low MST combined with consistent and stable COF for high speed HFFS
- Excellent support for printing on Acrylic side (rotogravure and flexographic printing, lamination), no decay in time
- Improved Aroma and Mineral Oils barrier compared to non-barrier film

Market Application Examples

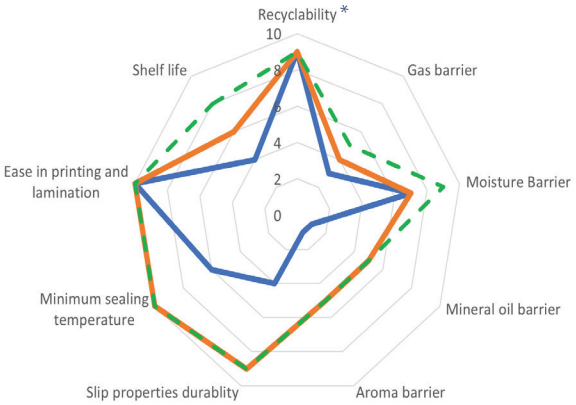




Typical Applications:
Dry Biscuits or Bakery in flow wrap, Snack, Confectionery, Personal Care or Household Products



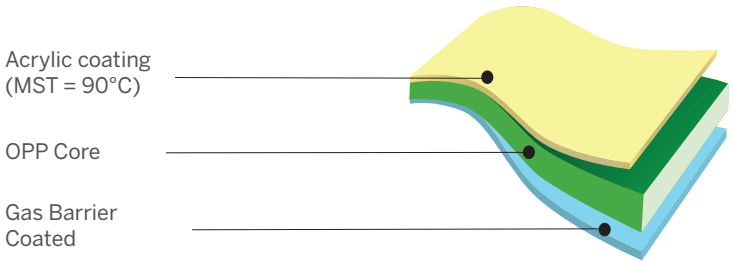
Ultra wide operating window for very high speed or high speed variation



independent third-party certifications available upon request

Gas Barrier Coated Films

Superior barrier performance for extended shelf life



MADE FOR RECYCLING interzero®

EXTENDO® D758

Standard Water Vapour Barrier
5.0g/m²/d (38°C, 90% RH)

Improved Oxygen Barrier
0.5g/m²/d (23°C, 0% RH)

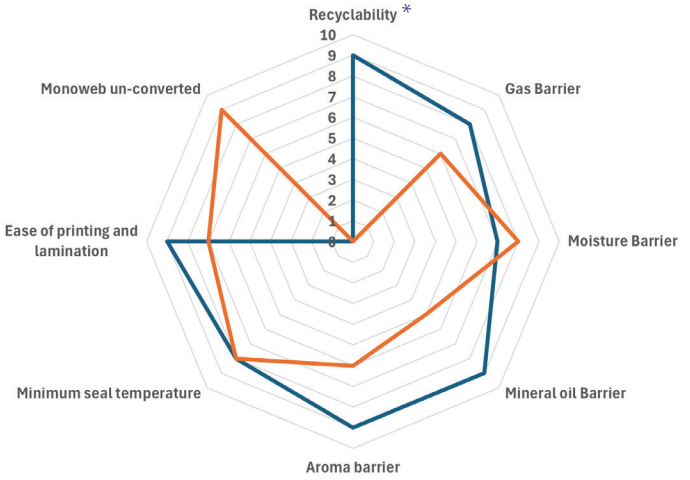
BoPP Transparent film, one side Acrylic coated, one side high gas barrier coated

- Enhanced barrier to oxygen and mineral oil for improved flavour and extended shelf-life
- Good inks and adhesive receptivity on both sides. Usually reverse printed on barrier coating side for its high surface energy and wettability
- Enhanced flavor, aroma barrier to boost product taste and freshness
- Outside acrylic coated side provides consistent and stable COF and flexible seal characteristics (i.e. gussets seal for stand-up packs)
- Chlorine-free formulation to support safer, environmentally compliant packaging and possible recycling in PP or polyolefin stream

Market Application Examples



Typical Applications:
Snack, Bakery, Confectionery, Nuts, Dried Fruits, Dry Foods



**independent third-party certifications available upon request*



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zero waste solutions

Certificate

Made for Recycling

Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
QTA 25 µm

Test results

Very good

19 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT**
Test result reduced by recycling infrastructure for:

Recycling infrastructure
Mass fraction of packaging available for recycling: **100%**
Designated recycling stream for this assessment **PP, flexibel <A4**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2024
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 2972 is based on the prior packaging analysis with corresponding number 2566 and is valid until 10.04.2027 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 12.04.2025

Test and evaluation executed by Interzero Recycling Alliance GmbH

Frank Kurrat
Managing Director
Interzero Recycling Alliance GmbH

ppa. Dr. Manica Utcnik-Krumpp
Managing Director
Interzero Plastics Innovations d.o.o

Evaluation methodology developed by bifa Umweltinstitut GmbH

bifa Umweltinstitut

Prof. Dr. Nadine Warkotsch
Managing Director



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zero waste solutions

Certificate

Made for Recycling

Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
EXTENDO XQTA 25µm

Test results

Very good

19 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT**
Test result reduced by recycling infrastructure for:

Recycling infrastructure
Mass fraction of packaging available for recycling: **100%**
Designated recycling stream for this assessment **PP, flexibel <A4**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2024
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 2974 is based on the prior packaging analysis with corresponding number 2570 and is valid until 10.04.2027 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 12.04.2025

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Frank Kurrat
Managing Director
Interzero Recycling Alliance GmbH

ppa. Dr. Manica Utcnik-Krumpp
Managing Director
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Evaluation methodology developed by bifa Umweltinstitut GmbH

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Prof. Dr. Nadine Warkotsch
Managing Director



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Certificate

Made for Recycling

Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
QTL 25 µm

Test results

Very good

19 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT**
Test result reduced by recycling infrastructure for:

Recycling infrastructure
Mass fraction of packaging available for recycling: **100%**
Designated recycling stream for this assessment **PP, flexibel <A4**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2024
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 2970 is based on the prior packaging analysis with corresponding number 2567 and is valid until 10.04.2027 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 12.04.2025

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Managing Director



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zero waste solutions

Certificate

Made for Recycling

Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
EXTENDO XQTL 25µm

Test results

Very good

19 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT**
Test result reduced by recycling infrastructure for:

Recycling infrastructure
Mass fraction of packaging available for recycling: **100%**
Designated recycling stream for this assessment **PP, flexibel <A4**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2024
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 2973 is based on the prior packaging analysis with corresponding number 2569 and is valid until 10.04.2027 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 12.04.2025

Test and evaluation executed by Interzero Recycling Alliance GmbH

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Managing Director



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Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
EXTENDO D758

Test results

Good

18 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT,IT,FR,ES,SE,NO**
Test result reduced by recycling infrastructure for: **BE,NL,PL,UK**

Recycling infrastructure
Mass fraction of packaging available for recycling: **100%**
Designated recycling stream for this assessment **PP, flexibel <A4**
Recyclability grading **A**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2025
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 3604 is based on the prior packaging analysis with corresponding number 3688 and is valid until 03.03.2028 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 05.03.2026

Test and evaluation executed by
Interzero Recycling Alliance GmbH

Frank Kurrat
Managing Director
Interzero Recycling Alliance GmbH

ppa. Dr. Manica Ulcnik-Krump
Managing Director
Interzero Plastics Innovations d.o.o

Evaluation methodology developed by
bifa Umweltinstitut GmbH

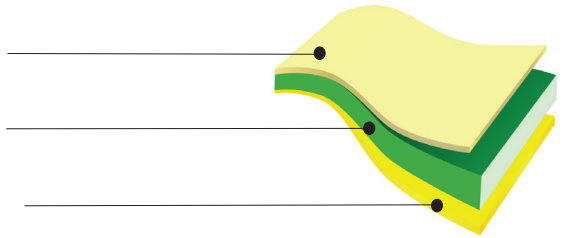
bifa Umweltinstitut

Prof. Dr. Nadine Warkotsch
Managing Director



QRA Coated Films

Wide application range



MADE FOR RECYCLING
interzero®

QRA

Standard Water Vapour Barrier
3.5g/m²/d (38°C, 90% RH)*

**thickness 42 µm*

BoPP White voided film, both sides acrylic coated, high yield

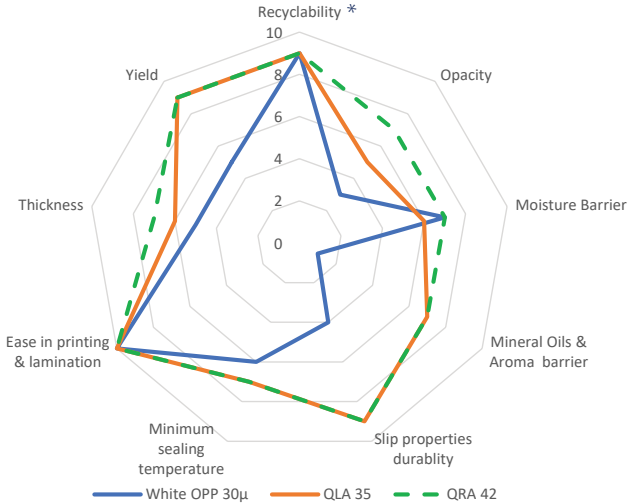
- White voided high yield
- Two sides Acrylic Coated
- Reduced "show-through"
- Good light protection
- Improved aroma protection and mineral oils barrier**

***compared to standard BoPP*

Market Application Examples



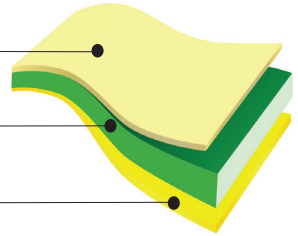
Typical Applications:
Dry Biscuits or Bakery in roll wrap, Snack'n Seal Packaging or Confectionery



**independent third-party certifications available upon request*

QRL Coated Films

Wide operating window for HFFS



MADE FOR RECYCLING
interzero®

QRL

Standard Water Vapour Barrier
3.5g/m²/d (38°C, 90% RH)*

**thickness 42 µm*

BoPP White voided film, one side acrylic coated, one side ultra low heat sealing coating, high yield

- White voided high yield
- Reduced "show-through"
- Good light protection
- Improved aroma protection and mineral oils barrier**

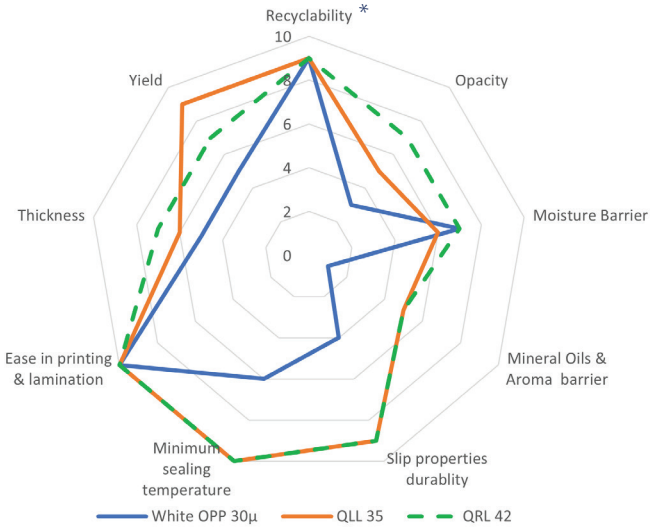
***compared to standard BoPP*

Market Application Examples





Typical Applications:
Dry Biscuits, Snack, Bakery, Confectionery in HFFS applications



**independent third-party certifications available upon request*



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zero waste solutions

Certificate

Made for Recycling

Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
QRA 42 µm

Test results

Good

18 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT**
Test result reduced by recycling infrastructure for:

Recycling infrastructure
Mass fraction of packaging available for recycling: **93%**
Designated recycling stream for this assessment **PP, flexibel <A4**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2024
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 3052 is based on the prior packaging analysis with corresponding number 2747 and is valid until 24.07.2027 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 26.07.2025

Test and evaluation executed by
Interzero Recycling Alliance GmbH

Frank Kurrat
Managing Director
Interzero Recycling Alliance GmbH

ppa. Dr. Manica Ulcnik-Krump
Managing Director
Interzero Plastics Innovations d.o.o

Evaluation methodology developed by
bifa Umweltinstitut GmbH

bifa Umweltinstitut
Prof. Dr. Nadine Warkotsch
Managing Director



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zero waste solutions

Certificate

Made for Recycling

Taghleef Industries S.p.A.

We hereby confirm the recyclability of the following packaging:
QRL 42µm

Test results

Good

18 from 20 Points

International Assessment
Test result of recyclability for: **DE,AT**
Test result reduced by recycling infrastructure for:

Recycling infrastructure
Mass fraction of packaging available for recycling: **100%**
Designated recycling stream for this assessment **PP, flexibel <A4**

Recycling infrastructure
Criteria and evaluation methodology of the bifa Umweltinstitut GmbH, tested by the Fraunhofer Institute for Process Engineering and Packaging (Fraunhofer IVV), last updated: 01.09.2024
Testing is based on the criteria for material recyclability: DIN EN 13430
Minimum standard from ZSVR

This certificate 3396 is based on the prior packaging analysis with corresponding number 3393 and is valid until 30.03.2027 (two years after issue). Any change in the packaging components will render this certificate invalid.
Köln, dated 01.04.2025

Test and evaluation executed by
Interzero Recycling Alliance GmbH

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Evaluation methodology developed by
bifa Umweltinstitut GmbH

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Prof. Dr. Nadine Warkotsch
Managing Director





Together we Innovate™



ti-films.com



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