

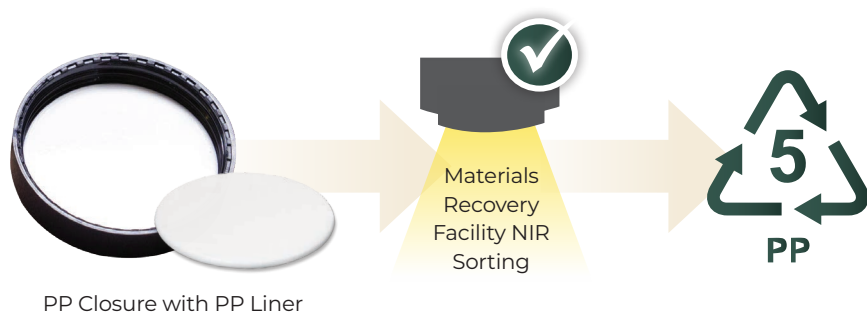
ProTecSeals®: PP Foam Closure Liners

Achieve up to 100% Acceptance into the Recycling Stream* with ProTecSeals®



ProTecSeals® polypropylene (PP) foam closure liners from TekniPlex enable up to 100% acceptance into the recycle stream* – protecting your brand and the environment.

TekniPlex's innovative PP foam liners are designed to work in concert with PP closures to improve recycle stream reclamation. Liners made from the same base polymer as the closure will enhance the ability of the materials recovery facility (MRF) to correctly identify and divert the liner/closure combination for reprocessing into next generation materials.



ProTecSeals® lining material offers a potentially fully-recyclable solution* when used with a PP closure. When the closure is discarded with the lining material, the MRFs are able to detect the lining material as PP, enabling the closure and liner to be fully recyclable into the PP stream*.

* Subject to the MRF's process capability and sizing guideline.



For additional information, please visit:
<https://tekni-plex.com/new/sections/consumer-products.html>



Improve recycle stream
reclamation with
ProTecSeals® liners

One of the biggest obstacles in downstream waste reprocessing is the ability of the near infrared (NIR) system at the materials recovery facility (MRF) to correctly identify materials used for beauty and home care product applications.

This is particularly challenging when a PP closure uses a polyethylene-based liner. Creating liners made from the same polymer as the closure means the combination will be identified as polypropylene during the sorting process and correctly reclaimed and converted into next generation materials.



Features and Benefits:

- Improved recycling capabilities due to “one-material” identification by MRF during NIR sorting. Foam liner NIR identification has been verified by an independent third-party lab.
- PP structures can be used as a primary or a backing liner.
- Proprietary technology creates liners for demanding softness, compression, and leak performance standards.
- Customers can return liner rolls to TekniPlex to be repelletized. Repelletized PP resin is reused PP in the core layer.
- PP liner/closures meet EU 2030 recyclability regulations, without requiring consumers to remove liners before recycling.
- When used in conjunction with an induction liner, the PP liner can provide temperature resistance and torque retention due to its higher melting temperature.

**Protecting Products,
Strengthening Brands,
Innovating Sustainably.**

ProTecSeals® is manufactured in the United States and Europe.



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