



CONVERTING **FOR APPLIANCES**

TPC **CONVERTING**
New Ideas. Valued Partner. *Optimized Solutions.*

tpcconverting.com

CONVERTING FOR APPLIANCES

The appliance industry is a dynamic, highly competitive market requiring precision and quality at every stage of manufacturing.

One of the most vital steps is the conversion process, which turns raw materials into specific forms, shapes, and sizes. TPC Converting offers a range of converting capabilities to meet the specialized needs of the appliance industry. Our experience and advanced converting technologies produce high-quality, cost-effective solutions for a diverse range of appliances.

Here, you'll learn more about the different types of converting services for appliances, our capabilities, and what makes us a valuable partner.

WHAT ARE CONVERTING SERVICES?

Converting includes all the processes used to turn raw materials into usable parts or products by altering the material's form, function, or characteristics. The most common converting processes include:



DIE CUTTING



LAMINATING



PERFORATING



PRINTING



SLITTING





CUSTOM CONVERTING FOR APPLIANCES

The appliance industry relies on custom converting services throughout the production process, to aid in everything from appliance assembly to product protection to thermal management.

APPLIANCE ASSEMBLY

Converting operations like die cutting are used in appliance assembly to produce adhesive strips, film panels, and gaskets in custom sizes and shapes. Adhesives, in particular, can increase productivity in appliance assembly because the adhesives can usually be applied with rollers, dispensers, and other automated assembly systems.

Converting services are also beneficial for these common appliance assembly applications:

- Protective film for different surfaces
- Adhering nameplates, handles, and other components to appliances
- Creating vibration- and noise-dampening neoprene rubber gaskets
- Providing temporary holding solutions between assembly stages
- Using very high bond (VHB™) adhesive materials instead of clips or fasteners
- Creating bonding membranes between switch layers
- Sealing internal connections with custom gaskets or tapes

PRODUCT PROTECTION & VISUAL APPEAL

Since aesthetic appeal is a primary goal in appliance production, converting services help create decorative elements and protective sheets or films to preserve appearance. Die cutting, lamination, and sheeting operations are all used to cut custom, complex shapes and protective layers to precisely fit components and apply them in the right areas during production.

These plastic film strips, labels, and decals protect products from abrasion, moisture, corrosion, dirt, and impacts during transportation, storage, and installation. Converted materials are also opportunities to provide simple directions, include eye-catching branding, and highlight notable product features.

Laminating is one of the most common converting processes. It involves applying a thin coating to paper or other material to make it more durable, textured, or water-resistant.



Specific applications for enhancing appliance protection and visual appeal include:

- Protecting exterior surfaces with custom-cut protective films
- Laminating safety or warning labels for access panels or cords
- Protecting touch screens from scratches with temporary film covers
- Creating adhesive film covers for smooth, polished surfaces, preserving “like new” finishes

- Keeping internal components from moving and damaging each other with custom foam gaskets
- Adding rubber or plastic adhesive feet to the underside of cabinets or enclosures
- Holding cords or racks in place temporarily during transportation with custom tapes
- Securing protective packaging like paper or cardboard between appliance doors or drawers



ACOUSTIC AND VIBRATION DAMPENING

With many home appliances located in or near primary living spaces, minimizing the noise and vibration created during the appliance's operation is important. In addition to dampening noise and vibration for comfort reasons, converted materials help mitigate appliance vibration to maximize its service life. Converted foam gaskets, coverings, and pads are most commonly used to reduce noise and movement in appliances.

Specific applications for converting services in acoustic and vibration dampening include:

- Die-cut insulating mats and blankets for dishwashers
- Custom padding and lining inside pump, motor, or fan enclosures
- Foam gaskets to minimize abrasion between mating components
- Covers for hoses and pipes to limit squeaking or rattling of HVAC equipment

THERMAL MANAGEMENT

Thermal insulation in appliances minimizes heat transfer between components to promote optimal performance. These converted materials also reduce the transfer of excessive appliance heat to nearby furniture, fixtures, or cabinets.

Die-cut padding and gaskets can regulate appliance heat and thereby support energy efficiency. Non-porous, non-combustible materials like foils can lower fire risks, maintain consistent operating temperatures, and control condensation.

Some common applications for converting in thermal management include:

- Die-cut insulating pads for slide-in ranges and dishwasher tubs
- Custom hose coverings and gaskets for A/C and furnace units
- Foam strips to regulate temperatures in electronic devices



TPC CONVERTING'S CAPABILITIES

TPC Converting offers unique converting and value-added services for appliance applications. We work with various products and materials, including:



BONDING TAPES



GASKET FOAM



MASKING TAPES



MOUNTING TAPES



PROTECTIVE FILMS

- Chemical resistant
- Faux stainless steel
- Fingerprint resistant
- Scratch resistant
- Surface protection
- UV resistant

Our converting capabilities for the appliance industry include:



DIE CUTTING



SLITTING



LAMINATING



PROTOTYPING



SHEETING AND STACKING

WHAT MAKES TPC CONVERTING UNIQUE

TPC Converting is equipped with state-of-the-art technology and extensive experience with appliance industry conversion operations. This, combined with our prompt customer service, makes TPC Converting a top converting service provider for the appliance industry.

Our full-service converting capabilities include:



RAPID PROTOTYPING

Using 3D CAD technology, we can quickly create a prototype part, model, or assembly for efficient and accurate new design testing.

CUSTOM AUTOMATION

Our partial to full automation capabilities can be tailored to each customer's specific needs to streamline industrial processing operations.



LASER CUTTING

Our laser cutting technology allows us to meet the high level of precision appliance components need.



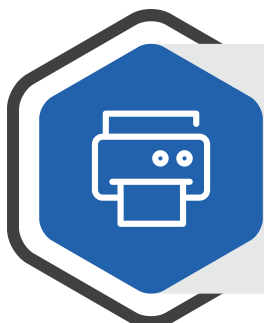
TOOLLESS PRODUCTION

By moving from prototyping straight to manufacturing, we give customers a fast and cost-efficient converting solution that doesn't require tooling. Toolless production also accelerates time to market and facilitates easy customization, even for high-volume production runs.



PRINTED PRODUCTS

We provide a range of high-quality, customized printing solutions with quick turnaround times.



ADHESIVE ENGINEERING

We use the latest technology for bonding metals with high-strength synthetic resins.

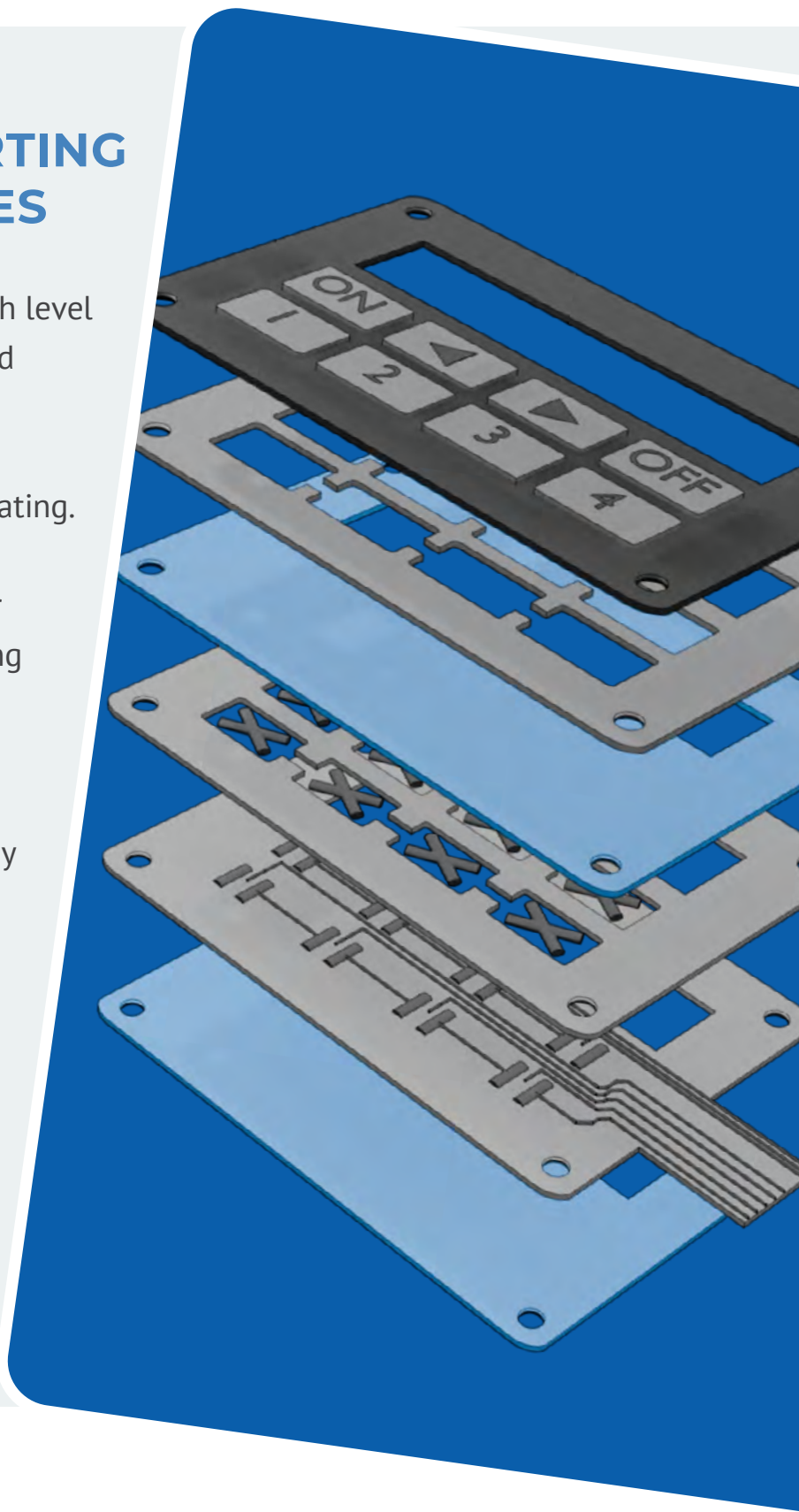


CHOOSE TPC CONVERTING FOR YOUR APPLIANCES

Converting for appliances requires a high level of precision to create quality, customized products and components. Common converting services include die cutting, slitting, laminating, printing, and perforating.

As a leading converting service provider in the appliance industry, TPC Converting offers these and other value-added converting services for a variety of appliance applications. As an ISO 9001:2015 certified company, we employ cutting-edge equipment, multiple-layer construction, and diverse finishing options to deliver consistently high-quality results to our customers.

[Contact us](#) to learn more about our appliance converting capabilities, or [request a quote](#) today to get started with a custom project.



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ABOUT TPC CONVERTING

For over 50 years, TPC Converting has fulfilled the packaging needs of a diverse range of industry clients. Our services are custom-tailored to each client while offering quick turnaround and cost-efficiency. Plus, our team leverages a strong supplier network to quickly obtain the highest quality materials, no matter how specialized your application.

[CONTACT US](#)[RESOURCE LIBRARY](#)

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