



PEAK

Launching the Next Generation
of Manufacturing Technology

Surface Polishing

(Flame, Vapor, & Mechanical buffing)

Materials Supported:

PVC, CPVC, PVDF,
ABS, Nylon,
Polypropylene, Kynar,
and more

Welding Methods: Hot
gas, extrusion, fusion
(certified)

Max Part Size: Up to
72" L x 48" W x 30" D
(varies by process)

Leak Testing: In-house,
as required by
application



Overview

In industries where aesthetics, clarity, and functional finish are critical—such as biomedical, aerospace, and high-tech consumer products—raw machined or formed plastics often aren't production-ready. Rough edges, haze, or inconsistent surface textures can impact not only visual appeal but also performance, especially in fluid-contact or optical systems.

Most fabricators treat polishing as a secondary task or outsource it altogether, introducing risk and inconsistency. Peak's customers need surface finishing performed in-house, with expert attention to material compatibility, dimensional control, and end-use requirements.

Solution

Peak Technology offers in-house flame, vapor, and mechanical polishing tailored to the base material, geometry, and finish requirements of each part. Whether enhancing optical clarity, smoothing sealed surfaces, or preparing display-grade components, we use tightly controlled polishing methods integrated with our fabrication, machining, and forming workflows. Our team ensures that every polished part meets dimensional tolerance, performance needs, and visual expectations—ready for customer delivery or cleanroom integration.

- **Flame Polishing** – Ideal for flat or curved edges; delivers clear, smooth surfaces through controlled heat treatment.
- **Vapor Polishing** – Great for internal surfaces and complex geometries; chemically smooths plastic for clarity and reduced friction.
- **Mechanical Buffing** – Delivers high-gloss or matte finishes based on application needs, often used for large-area polishing.
- **Material-Specific Approaches** – Optimized processes for acrylic, polycarbonate, ULTEM, ABS, and more.

Peak Technology Enterprises is a woman-owned precision manufacturing company based in San Jose, CA, offering **additive** and **subtractive** manufacturing, engineering support, system integration, and full assembly services. With over **60 years of experience** and **ISO 9001 certification**, Peak partners with **global OEMs** and innovators to deliver high-performance components and complex builds—on time, on spec, and on budget.

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