



Maximize Value and Minimize Waste with PEEK

At \$75-\$125 per pound, PEEK demands smart material management. Optimizing yield protects your margins and supports sustainable practices. Mitsubishi Chemical Group (MCG) is here to help you do both. MCG offers a full range of options to match your design needs and budget—from injection-molded near-net shapes to our Ketron™ Sterra™ recycled PEEK grades.

Start with Smarter Design

Wasted material is wasted money—especially with premium polymers like PEEK. Cutting from oversized stock drives up cost in two ways:

- 1. You pay for material you don't need
- 2. You pay again to machine it away

Many shops stick to standard shapes for lower-cost plastics like polyolefins, polyoxymethylene, or nylon. But with highperformance polymers, better yield matters more. MCG's wide range of Ketron[™] custom and stock shapes make it easy to design smarter and save more.

Shape Options for Better Yield:

- **Custom-width and -length plates:** Save when standard blanks cause poor yield
- Custom-length rods: Cut longer parts without waste
- Extruded tubes: Get thicker walls with better dimensional stability
- Injection-molded tubes: Ideal for thin-walled parts under 10" outer diameter
- Spun tubes: Larger diameters and smaller minimum order quantities (MOQ) than extrusion
- Injection-molded near-net shapes: Best for high-volume milled parts





Real-World Example: Big Wins with Smart Choices

One customer's part started from a standard 2" x 24" x 48" PEEK plate. Switching to a custom 2" x 14" x 32" plate **cut blank material costs by 50%**.

Once the design was finalized, the process moved to an injection molded near-net shape.

\$28K initial tooling investment	Material use reduced by 91%	Material costs lowered by 85%	Machining time cut by 100 minutes per part.
The result? Everyone won: The distributor gained margin, the machine shop boosted throughput, and the OEM slashed part cost.			

Sustainable Choices That Pay Off

It's easy to capture savings by optimizing yield on large PEEK jobs. Plus, don't forget our <u>Ketron[™] Sterra[™] recycled</u> <u>content grades</u>. Each Sterra[™] grade comes with a full lifecycle assessment (LCA) including a carbon footprint reduction, calculated using our CORACAL[™] dashboard available on our <u>MCAM Connect</u> portal.



Ready to talk about your next PEEK project?

We're here to support you with smart solutions that save you time, cost, and material. <u>Let's connect</u>.

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