Product Spotlight: Ketron™ Polyetheretherketone (PEEK)

If your customers are chasing strength, stability, and chemical resistance for demanding applications, Ketron™ polyetheretherketone (PEEK) should be on your shortlist.
PEEK is a high-performance thermoplastic polymer and the most popular material in the polyaryletherketone (PAEK) family. This powerhouse polymer has been solving tough challenges since the early 1980s, when Imperial Chemical Industries first introduced it for aerospace, chemical, and automotive applications. Decades later, PEEK is still the go-to when performance can't be compromised.

Why Peek?

- Withstands continuous heat above 300°F
- Resists aggressive chemicals, steam, and hot water
- Tougher than fluoropolymers like polyvinylidene fluoride and polychlorotrifluoroethylene with little sacrifice in chemical performance
- Machinable and melt-processable
- Customizable to meet various applications

How It's Made, Where It Fits

PEEK can be processed through injection molding, extrusion, spin molding, and thermoforming (with specialized high-temperature equipment due to 650°F melting point). Its 300°F glass transition (Tg) means it stays strong where other thermoplastics soften.

You'll find PEEK working hard in:

- Bearings and seals in oil and gas equipment
- Fluid manifolds for analytical instrumentation
- Valve parts for food and beverage packaging, especially during hot filling
- Spacers in spinal fusion implants

From the planes you board to the smartphones you carry, the adoption of PEEK is only growing—especially as industries tackle the future of electric vehicles.

Your Trusted Source for PEEK Support

PEEK is a powerful material, but selecting the right resin is only the beginning. With so many grades, custom formulas, and chemistry tweaks like polyetherketones (PEK), polyetherketoneketone (PEKK) and polyetherketoneetherketoneketone (PEKEKK), performance can shift fast based on part demands.
That's why choosing Ketron™ and working with Mitsubishi Chemical Group (MCG) gives you more than just premium material. You get:

✓ Locked-down processing that maintains highly consistent resin properties

✓ The widest range of PEEK recipes on the market, including carbon- and glass-fiber reinforced grades

✓ Expert support to help you match grades to customer specs and applications

Let's talk about how Ketron™ fits into your portfolio.

Our team is ready when you are! Contact us.

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