Engineering and High Performance Thermoplastic Stock Shapes for Machined Parts

Quantum Polymers manufactures extruded high performance stock shapes for machined parts. Our stock shapes are available in the form of rods, plates, and on a custom basis, tubular bars. Quantum’s offerings include high performance polymers such as PEK, PEEK, PPS, PPSU, PSU, PEI, and PVDF. Quantum also offers stock shapes from engineering polymers such as PPO, PC, and filled POM-H. These materials are available in various colors and can be reinforced with fillers such as glass fiber, carbon fiber, carbon nanotubes, graphite, and PTFE.

Materials
The following materials are readily available from stock:
- KetaSpire® PEEK—unfilled natural & black, GF30, CF30, bearing grade
- ULTEM™ PEI—unfilled natural & black, 30% glass filled natural & black
- Kynar® PVDF—natural & black
- Ryton® PPS—unfilled natural & black, 40% glass filled natural & black

Industries
Machined parts made from stock shapes have applications in the following industries:
- Aerospace & Aviation
- Healthcare
- Industrial
- Oil & Gas
- Semiconductor
- Transportation

Custom Products
Our made-to-order products offer the following advantages:
- Custom sizes resulting in higher yields of machined parts
- Low minimum order processing
- Short delivery times (typically 2-3 weeks)
- Toll extrusion services available

MADE IN THE USA FROM 100% PRIME VIRGIN RESINS
List of Stocked and Made-To-Order Materials

**PEEK**
- *KetaSpire® KT820, Vestakeep® 4000 & 5000G–Unfilled Natural & Black
- *30% Glass Fiber Filled
- *30% Carbon Fiber Filled
- 15%-20% PTFE Filled
- *Bearing Grade
- CNT filled ESD Grade

**KT820, Vestakeep® 4000 & 5000G–Unfilled Natural & Black**

**PEI**
- ULTEM™ 1000–*Unfilled (Natural, Black)
- ULTEM™ 2100–10% Glass Fiber Filled
- ULTEM™ 2200–20% Glass Fiber Filled
- ULTEM™ 2300–*30% Glass Fiber Filled (Natural, Black)
- ULTEM™ 2400–40% Glass Fiber Filled
- ULTEM™ 4000–Bearing Grade
- 20% Carbon Fiber Filled
- 20% Glass Filled–Chemical Resistant–CRS5201
- 30% Glass Filled–Chemical Resistant–CRS5301
- CNT Filled ESD Grade

**PVDF**
- *Kynar® 740 (Natural, Black)
- Kynar® UHM™
- Kynar® 1000HD
- Kynar® Flex 2850

**PVDF**
- *Unfilled (Natural, Black)
- 20%-30% Glass Fiber Filled

**PPS**
- *Unfilled (Natural, Black)
- *40% Glass Fiber Filled (Natural, Black)
- 15% PTFE Filled
- Bearing Grade

**PPS**
- NORYL™ EN265–Unfilled
- NORYL™ GFN2, NORYL™ SE1GFN2–20% Glass Fiber Filled
- NORYL™ GFN3, NORYL™ SE1GFN3–30% Glass Fiber Filled

**PPO**
- LEXAN™103 (UV)
- LEXAN™104 (FDA)
- LEXAN™ 3412R–20% Glass Fiber Filled
- LEXAN™ 3413R–30% Glass Fiber Filled
- LEXAN™ 3414R–40% Glass Fiber Filled

**PC**
- Medical Grade–FHR 13R9A, 23R2A
- 20% Glass Fiber Filled
- 30% Glass Fiber Filled, FR Grade
- Antistatic ESD Grade

**POM**
- Antistatic ESD Grade
- Delrin® 100AF & Delrin® 500AF–13%, 20% PTFE Filled
- Delrin® 577–20% Glass Fiber Filled
- Delrin® 525GR–25% Glass Fiber Filled
- Delrin® 511P
- Delrin® AF DE588

**PP**
- Medical Grade–FHR 13R9A, 23R2A
- 20% Glass Fiber Filled
- 30% Glass Fiber Filled, FR Grade
- Antistatic ESD Grade

**TPE**
- Hytrel® 4069, 5555HS, 5556, 7246

**Rod**
- Diameter: 3/8” to 12”
- Length: 4’ | 8’ | 10’

**Sheets/Plates**
- Thickness: 3/8” to 6”
- Width: 12”, 18”, 24”
- Length: 4’

**Tubular Bars**
- OD: 3” to 6”, 10”, 12”
- Wall Thickness ≥ 1/2”
- Length: 4’ | 8’

*stocked items

Quantum Polymers is an ISO 9001:2015 certified company
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