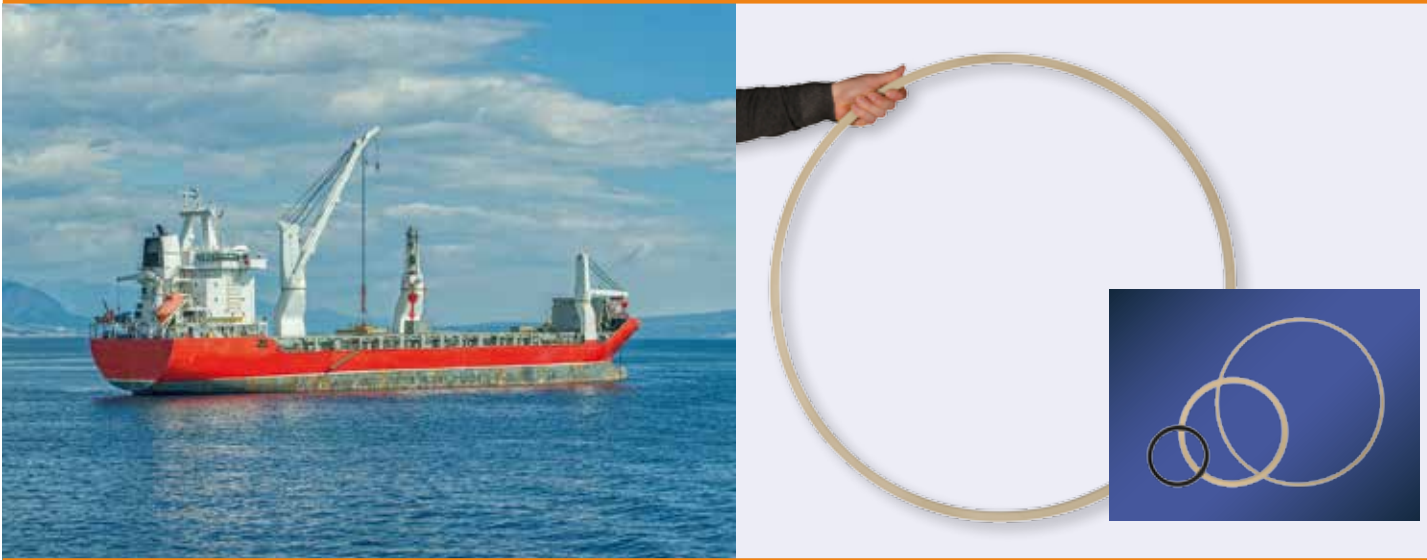


Large Diameter Segmented Welded Rings



Expand your selection of large rings up to 3 meters in diameter (Please contact us for additional sizes available.)

When the application requires a large diameter ring for use as an e.g. spring energized seal, back-up ring, guide ring, or bearing, customers search for a large diameter compression molded PTFE or PEEK material. Quadrant's "Segmented Welded Rings" made from Ketron® PEEK natural or modified Ketron® PEEK + PTFE with their proven mechanical properties are the answer. Completed welded rings, in their near net shape, maintain low stress and excellent dimensional stability required for final machining of custom shapes.

Trends in Seal and Bearing Applications

- Large and flexible sizes of polymer seals
- Excellent machinability for tight tolerances
- Low investment cost

Quadrant Answers

- Full Quadrant engineering from CAD design to finished part
- Ring diameters beyond 3 meters
- Tested and certified materials (ISO 1183, ISO527, ISO178, ASTM1708)
- Exceptional wear properties
- Service temperature of up to 232 °C (450°F)
- Low deformation
- Quick quote process

Key Benefits

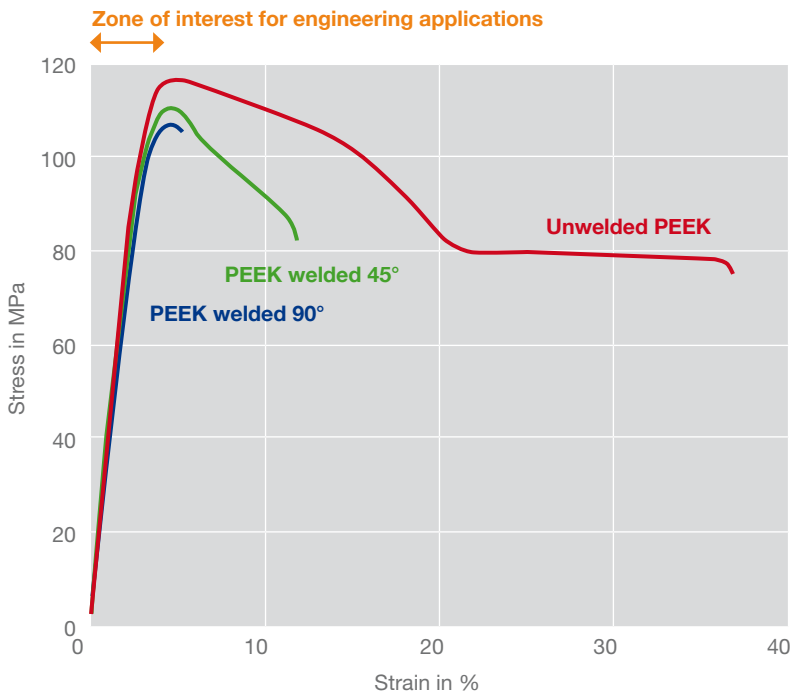
- Longer lasting components
- High performance materials
- Superior welding technique
- Non destruction parts
- New solution over metal
- Exceptional payback
- Reduce material scrap

Common Applications

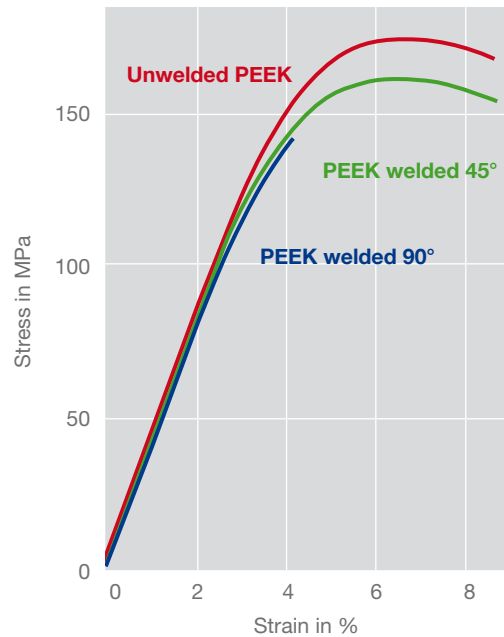
- Oil & Gas and Aerospace Industry
- Large High Temperature/High Pressure Seals (HTHP)
- Back-up Rings
- Guide Rings
- Wear Ring
- Bushings
- Large Diameter Valve Seats
- Crane Bearing and Swivels
- Offshore Mooring Systems

Large Diameter Segmented Welded Rings

Ketron® PEEK 1000 Tensile Curves

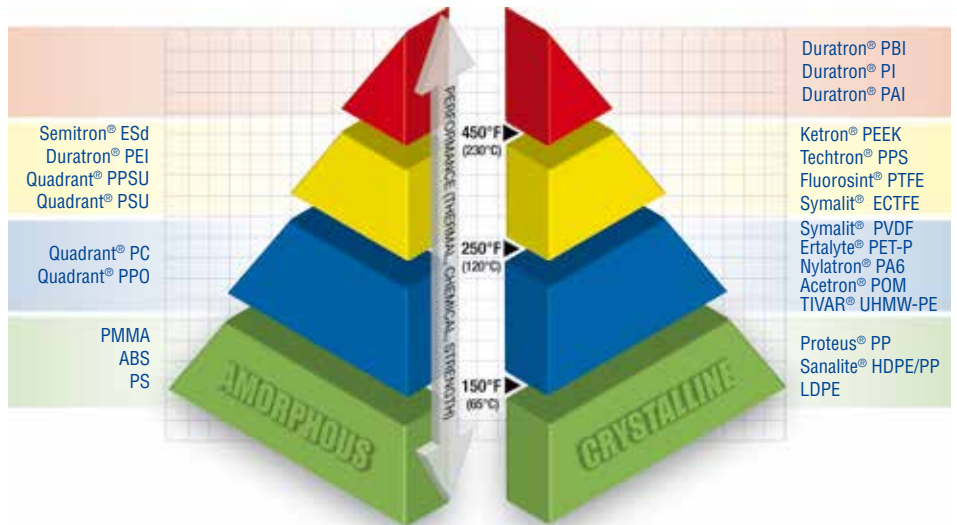


Ketron® PEEK 1000 Flexural Curves



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