

H&H SEAL AND PRODUCTS

Spring Energized Seals



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(832) 802-3083
HHSEALPRODUCTS.COM

Spring Energized Seals

Energized Seals

Our engineered sealing product lines consist of metallic:

- Spring Energized Seals
- Rubber Energized Seals
- Rotary Spring Energized Seals
- Custom Designed Seals

Large diameter seal machining capabilities to 110" OD+
Micro machining capabilities that range from less than .020"

Three distinctive spring energized seal lines are available for customer application requirements using spring energized seal jacket assemblies:

- "U" & "V" – Shaped Cantilever
- Helical Wound
- Inclined Coil



Machined Polymer Products

- Spring Energized Seals
- PTFE Rotary Lip Seals
- High Pressure Seals
- High Temperature Seals
- Scraper Seals
- V-Packing Sets
- V-Rings
- Male, Female Rings
- Valve Seats
- PTFE Rings
- Wear Rings
- Bushings/Bearings
- Cap Seals
- Labyrinth Seals
- Pitch and Yaw Bearings Seals
- Piston Cup Seals

Materials

Conventional materials utilized for seal and wear products are listed below.

PTFE and / or Modified PTFE

- 100% (Unfilled) PTFE
- Glass Fiber Filled PTFE
- Glass Fiber / Molybdenum Disulfide Filled PTFE
- Carbon Powder / Graphite Filled PTFE
- Carbon Fiber Filled PTFE
- Ekonol Filled PTFE
- Polyimide Filled PTFE
- High Performance Polymer Filled PTFE
- Bronze Filled PTFE

Note: various custom blends and pigments are available.



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Spring Energized Seals

UHMWPE (Ultra High Molecular-Weight Polyethylene)

- Excellent abrasion resistant material
- Potential material replacement for PTFE materials at lower service temperatures and dynamic conditions
- Available in both compression molded and extruded grades
- Environmental resistant blends available
- Pigmented grades available
- FDA / Bio-Medical approved material
- Available in various grades of molecular weight and heat resistance

High Performance Polymers

- 100% (Unfilled) PEEK™
- Carbon Fiber Filled PEEK™
- PTFE Filled PEEK™
- Bearing Grade PEEK™ (Carbon Fiber / Graphite / PTFE blend)
- PAI and relative blends
- PPS and relative blends
- PEI
- PAEK
- Acetal (Delrin®) and relative blends
- PA (Nylon) and relative blend



Thermoplastic Elastomers

Higher Durometer hardness (75- 95 Shore A)
Thermoplastic Elastomers (TPE's) and Polyurethanes
are available for product design and conversion.

(PEEK™ is a registered trademark of the Victrex
Corporation Delrin® is a registered trademark of the E.I.
Dupont Company)

Melt-Processible Fluoropolymers

- FEP
- ECTFE
- ETFE
- PCTFE
- PFA
- PVDF



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