

Thermoplastic Materials Extend Reed Service in Pipe Organs



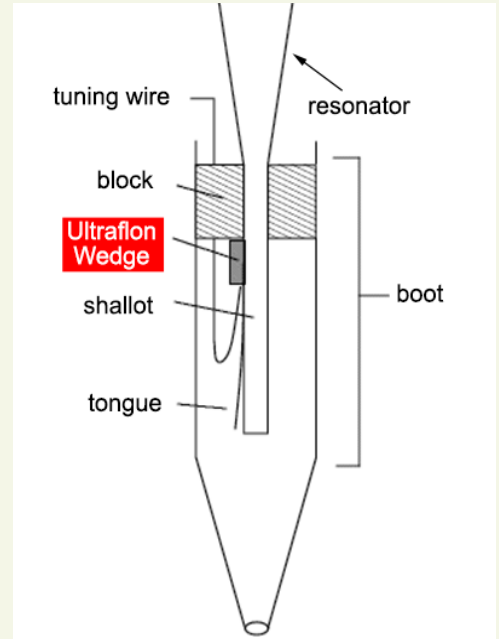
Pipe organs are among the most highly-complex musical instruments in the world. When one builder experienced premature failure with their traditional wood reed wedges, we designed them with high-performance thermoplastic materials. The result has been extended service, and less time spent on tuning.

Our client designs pipe organ for major cathedrals, concert halls and other premier venues. Until now, their reed pipe wedges were made of solid wood. But over time, the traditional wood would fail prematurely.

The reed wedge holds the reed and shallot in place inside the pipe. The entire unit is exposed to vibration as pressurized air moves through the pipe in order to vibrate at a certain pitch. The wood wedges could not withstand extended exposure.

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Reed [Organ] Pipe Cutaway

Ultraflon replaces traditional wood

We replaced the wood reeds with a modified high-performance thermoplastic material called [Ultraflon](#). Ultraflon delivers superior quality, along with excellent strength in heavily-loaded service environments.

Since replacing the wood with Ultraflon, the reed wedges now have the structural integrity to tolerate the force of the pressurized air flow. By extending the lifetime of the wedge, our client has also reduced the frequency of complex voicing procedures required to tune the organ.

Do you have a difficult bearing failure challenge and need a material recommendation? Just [Ask the Experts](#), and we'll provide a custom consultation. Or [Request a Quote](#) for thermoplastic materials!

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We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



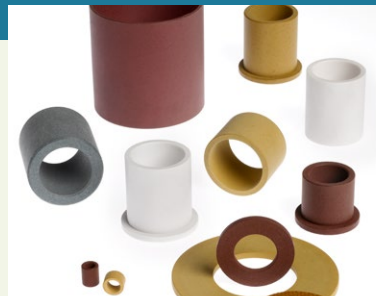
TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



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