



*Polysulfone Fitting*



*Metal Fitting*

*Sulfone polymers can increase the performance and service life of fittings compared to metal, while potentially cutting manufacturing costs.*

## Better than Metal

### SULFONE POLYMERS FOR FITTINGS

Water handling devices have traditionally been made of materials such as brass, copper and stainless steel. UDEL® polysulfone, ACUDELM™ polyphenylsulfone blends and RADEL® R polyphenylsulfone can outperform these metals, provide greater design freedom and lower manufacturing costs in many applications.

Sulfone polymers can resist mineral build-up and corrosion, even in aggressive water environments. This was clearly seen in a field study in Cape Coral, Florida. Working in conjunction with a local code official, a home builder installed a PEX system in a home using fittings made from UDEL polysulfone.

The fittings shown above were removed after several years of service from the cold water supply lines of two different homes with similar floor plans. Removed after four years, the polysulfone fitting has no apparent mineral build-up or corrosion, and the surface — although slightly dulled — appears as new. In a similar amount of time, the copper fitting had developed pin hole leaks.

UDEL, ACUDELM and RADEL R resins are also suitable for many hot water applications. Independent laboratory test results confirm that these materials have very good resistance to prolonged exposure to chlorinated water at temperatures as high as 115°C (239°F).

To learn more, call Solvay Advanced Polymers today at 800.621.4557 (US only) or +1.770.772.8200. Or visit our website at [www.solvayadvancedpolymers.com](http://www.solvayadvancedpolymers.com).

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