uponor

PLUMBING SYSTEMS

ENGINEERED PLASTIC (EP)

FREQUENTLY ASKED QUESTIONS

Engineered Plastic (EP) FAQs

What is Engineered Plastic (EP)?

Uponor's engineered plastic (EP) is a high-performance thermoplastic material that has superior mechanical, chemical and thermal properties which allow dimensional stability in demanding applications, including areas of high stress, heat and moisture.

What type of plastic is used to make EP?

Dependent on the fitting size, EP is made from UDEL®[1] polysulfone, Radel R®[1] polyphenylsulfone or Acudel®[1] modified polyphenylsulfone. These materials are part of a family of polymers that have been used successfully in the demanding environments of medical appliance, aerospace and plumbing for many years.

Why is EP better than copper, chlorinated polyvinyl chloride (CPVC) or brass fittings?

EP is just as strong and durable as copper and brass, but withstands corrosive environments and is not subject to high price fluctuations CPVC is especially vulnerable in cold climates because it is not freeze-resistant and can crack from the inside out.

What fitting system can be used with EP?

Uponor's exclusive ProPEX®[2] fitting system is compatible with all Uponor EP products. The ProPEX fitting system is a strong, reliable and durable connection method that uses the shape memory of Uponor AquaPEX® tubing to form water-tight, leak-resistant connections.

Is EP a good choice for aggressive water?

Look no further than Uponor's EP line and ProPEX Red Brass Adapters when transitioning from metal to PEX. Use this combination when installing an Uponor total plumbing solution in aggressive water applications.

Is EP as strong as other metal fittings?

Yes, EP is as strong and has proven itself in more than 10 years of plumbing applications. In fact, other industry applications of EP include artificial hearts, kidney dialysis membranes and spacesuit visors. If EP works in those applications, it can definitely work in plumbing systems.

What products are offered in EP?

The Uponor EP Product Family includes elbows and tees, manifolds, plugs, couplings and multi-port tees for residential and commercial applications. For a complete listing of all EP offerings, refer to the Uponor Product Catalog.

What fitting standards do the ProPEX connection method meet?

ProPEX fittings are certified to NSF 14 and 61, meet CSA Standard B137.5 and are manufactured to ASTM F1960.

What is the warranty for EP products?

Uponor backs its EP products with a 25-year limited warranty when used with Uponor AquaPEX tubing and ProPEX fittings and installed by an Uponor-trained contractor.

Uponor, Inc.
5925 148th Street West
Apple Valley, MN 55124 USA
Tel: (800) 321-4739
Fax: (952) 891-1409
Web: www.uponor-usa.com

Uponor Ltd.
655 Park Street
Regina, SK S4N 5N1 CANADA
Tel: (888) 994-7726
Fax: (800) 638-9517
Web: www.uponor.ca

[1] UDEL, Radel R and Acudel are registered trademarks of Solvay Advanced Polymers, L.L.C.

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