



Mr. PEX® Tubing - Repairing a kink

Although Mr PEX® Tubing is the most flexible and kink-resistant Tubing on the market, it may still happen that a kink could occur. PEX-a (peroxide crosslinked PEX) has the very important property of being extremely crack-resistant, so that the kink will not result in a crack. This property results in a couple of "extra" options to repair kinks:

- If the kink is not very accentuated, just rounding the tubing carefully with a pair of smooth pliers is acceptable. However, if the kink is in a place where there has to be a bend, there could be a risk that the kink re-develops. If so, measures have to be taken in order to prevent this from happening. One way could be to apply a bend support in such a way that the kink gets firm support.*

- A kink will disappear if the kinked section of the tubing is heated to a temperature above the material's crystalline melting point, 270° F. This temperature can be reached with a thermostat controlled hot air gun. It is quite important that the hot air reaching the tubing surface does not exceed 330° F. Please check with a thermometer. Carefully heat the tubing while continuously turning the hot air gun, allowing all sides of the kinked tubing section receive the same heat. The tubing wall will turn transparent in 2 - 4 minutes. When turning transparent, the kink will disappear. Stop heating and let the tubing cool down to room temperature, untouched, before continuing the installation. Applying cool water will speed up the cooling. The Tubing wall will turn opaque again. The very thin barrier layers may be slightly damaged during this process, but the core of the PEX Tubing will be fine. Local damage to the barrier layers will not affect the integrity of the installation. You may notice a very slight expansion of the heated section. That is because of the slight dimensional calibration performed during manufacturing will disappear, and that is OK.*

NEVER USE A TORCH TO HEAT THE TUBING! Overheating the tubing can lead to thermal degradation, which means that the life expectancy is compromised.

- The third method to repair a kink is the "conventional repair method". Cut out the damaged piece and apply a repair coupling (for example, using Mr PEX parts 152 + 163 for 1/2" tubing). If the tubing is to be embedded in concrete, we recommend to wrap the coupling and tubing section for a distance of at least 4 inches with a 1/2" layer of insulation - in order to increase accessibility and to protect the brass.*