

HIGH TEMPERATURE USE LIMITS FOR K-FLEX PE POLYETHYLENE INSULATION

K-Flex PE polyethylene insulation is a flexible closed cell insulation material designed to retard heat flow and prevent condensation when properly installed.

It is important to note that K-Flex PE is a *thermoplastic* insulation material. All thermoplastic materials have a melting point, and piping or equipment that operates at or above the melting point for the specific thermoplastic will result in melting of the insulation. The high temperature use limits for K-Flex PE is 200°F. This limit provides a reasonable safety margin (>15°F) between the service temperature limit and the melting temperature. Thermoplastic materials such as polyethylene, expanded polystyrene and extruded polystyrene are very susceptible to brief periods or spikes of temperatures above their melting point.

For systems operating either continuously or with temperature spikes greater than 200°F and up to 220°F, elastomeric insulation such as K-Flex Insul-Tube, Insul-Lock DS or Insul-Sheet may be used subject to limitations as stated in the respective technical data sheets. For applications above 220°F, K-Flex ECO or K-Flex HT elastomeric insulation, with maximum operating temperatures of 250 and 300°F, respectively can be used, subject to compliance with applicable code requirements.