Minimum Bending Radius for K-Flex Sheet Insulation Products

K-Flex USA supplies most insulation product types in tubular form up to 8" IPS in wall thicknesses up to 2". An exception would be K-Flex HT which is only available up to 4" IPS and up to 1" wall.

Sheets may be used to wrap pipe where it is more economical to do so, or where larger pipe sizes and / or insulation thicknesses are required than those offered pre-formed. Refer to Technical Bulletin TA28 for additional information.

When wrapping sheet around a pipe, there are two main considerations:

1. Bending radius of the sheet
2. Ability to obtain a tight, flat seam / joint

Bending Radius: K-Flex USA insulation products are all flexible. Smaller thicknesses (3/4" and less) can easily wrap around a 4" IPS pipe radius. Larger thicknesses will install more easily around a larger pipe radius. In some cases, it may be necessary or preferable to use 2 thinner layers to achieve the desired thickness. It should also be noted that while K-Flex elastomeric sheet insulation remains flexible down to -40°F, it becomes *less flexible* as the working temperature becomes lower.

Seams: On sheet from ¼" to 1" thickness, a tight, flat seam can be achieved. The seams can be sealed /closed with minimal pressure. Above 1" thickness (i.e. 1 ½" and 2") sheet should be mitered (angle cut) to form a better fit and a tighter seal.

The chart below shows the expected bending radius of elastomeric sheet insulation at approximately 60°F and above.

Sheet Thickness, in.	Minimum Bending Radius
1/4 - 3/4"	4" IPS
1"	6" IPS
1-1/2 – 2"	10" IPS