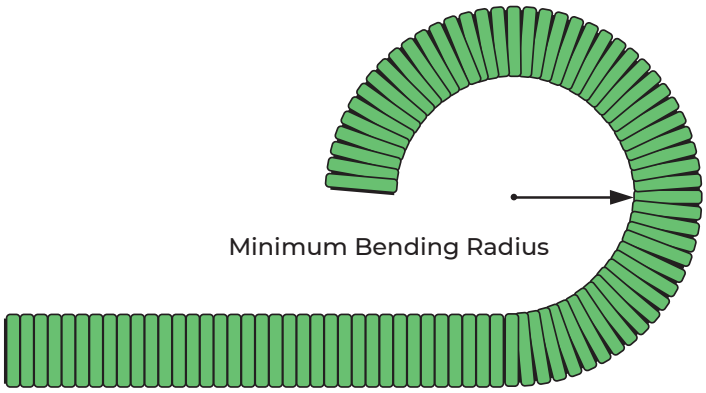
Minimum Bending Radius

The minimum bending radius is the smallest diameter to which a hose can be bent without causing internal damage or flattening in the hose's cross-section (kinking). It is measured at the inside curvature of the hose, as illustrated.

Temperature Considerations
For Kanaflex hoses, the minimum bend radius is established at 72°F. Temperature variations, either lower or higher, will affect the minimum bend radius. Proper hose selection must account for the actual application temperature of both the material handled and the ambient temperature.

Storage Guidelines
During storage, the ambient temperature should be considered to prevent hose damage. Ideally, the hose should be stored with as large a minimum bending radius as possible to avoid damage and premature hose failure.

Installation Tips
Over-flexing or repeated flexing of the hose within 18 inches of the fitting is a common cause of hose failure. To support the hose and prevent this issue, consider installing a 12 to 14-inch section of our Banding Coil at the end of the hose, just before the fitting.



Warranty Note
Kanaflex will not be responsible for damage to the hose due to over-flexing. To help prevent this common problem, Kanaflex recommends exercising caution when using the hose.

By following these guidelines, you can ensure the longevity and reliability of your Kanaflex hose.

Temperature Effects

Kanaflex conducts tests at 72°F to determine the recommended minimum bending radius, working pressures, and vacuum ratings, using straight lengths of hose. It is important to note that if ambient or application-induced temperatures differ from the 72°F baseline, the hose's specifications and ratings will change. Additionally, if the hose application and placement include bends, the stated specifications and ratings will also be affected.

Key Considerations

- Baseline Testing Temperature: 72°F
- Factors Influencing Specifications:
- Ambient temperature variations
- Application-induced temperature changes
- Presence of bends in hose placement

Recommendations
When determining the suitability of a hose for a specific application, please account for these variances to ensure optimal performance and safety.