

## What is the recommended minimum Bend Radius for PEEK tubing - FAQ

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The minimum bend radius of PEEK tubing is a function of its outer diameter (OD), wall thickness, and mechanical properties, which may vary by manufacturer due to differences in resin formulation and extrusion process.

As a general engineering guideline, the bend radius should be no less than 2.5 to 3 times the tubing OD to mitigate risks of plastic deformation, stress-induced microfractures, or compromised fluid integrity.

For example, a PEEK tube with an OD of 1/16" (1.59 mm) should maintain a bend radius between approximately 25 mm and 50 mm (1–2 inches), depending on application-specific tolerances and environmental factors such as temperature and pressure.

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