AI Overview

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In a Pure X Kielwood FUZE pool cue shaft, the carbon fiber is typically placed as **a thin layer wrapped around the maple wood core**, often using a specific weave pattern for optimal strength and stiffness, and then bonded with a high-quality epoxy resin to create a composite structure that enhances the shaft's performance.

Key points about the carbon fiber placement:

Wrapped around the core:

The carbon fiber fabric is cut to size and carefully wrapped around the maple wood shaft, ensuring even coverage and proper fiber alignment.

Weave pattern:

The carbon fiber fabric can be woven in different patterns like plain weave, twill weave, or unidirectional, each offering distinct properties in terms of stiffness and flexibility.

Epoxy bonding:

Once wrapped, the carbon fiber is bonded to the wood core using a high-performance epoxy resin that cures under pressure, creating a strong and durable bond.

Benefits of using carbon fiber in a pool cue shaft:

- Increased stiffness: Carbon fiber provides excellent stiffness, resulting in a more consistent hit and reduced deflection.
- Improved control: The added stiffness can also enhance control over the cue ball.
- Reduced vibration: Carbon fiber can help dampen vibrations, providing a smoother hit and better feedback to the player.

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