Review of: "Shear performance of polypropylene fiber reinforced high-strength self-compacting concrete beams"

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Potential competing interests: No potential competing interests to declare.

- The presentation of maximum deflection and relative deflection in Table 3 provides a clear comparison of beam performance under different conditions, including specified compressive strength and percentage of polypropylene fibers.
- The line charts and figures depicting strain vs. load, flexural strain, shear strain, and crack appearance enhance the visual understanding of how polypropylene fibers influence the behavior of reinforced concrete beams under various loads.
- The discussion and conclusion section succinctly summarizes the key findings regarding compressive strength, splitting tensile strength, cracking shear stress, maximum deflection, crack appearance, and energy absorption, providing a comprehensive overview of the study's results.
- Did the study investigate the long-term durability and performance of concrete beams with polypropylene fibers, considering factors like environmental exposure and aging?
- How do the observed changes in cracking shear stress and maximum deflection with varying fiber content relate to practical applications and design considerations for reinforced concrete structures?
- Were there any observations or analyses regarding the behavior of the concrete beams during the post-peak load phase, particularly regarding ductility and residual strength?
- In the discussion of energy absorption, did the study quantify the specific energy absorption capacity of beams with polypropylene fibers compared to non-fiber concrete beams?