New Developments in SiGDP to Glass Shells — Residual Gases, Gas Filling and Tailored Half-Lives*

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Glass shells continue to be of high interest as potential ICF targets. We have made progress in reducing and quantifying residual gases in shells manufactured by the silicon doped glow discharge polymer (SiGDP) to glass (Hoppe Glass) process. In addition, glass shells containing dopant gases and glass shells with deuterium half-lives tailored to better meet the needs of the experimentalist have been and are continuing to be developed. The current state-of-the-art developments in manufacturing Hoppe Glass shells is discussed.

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