



Metal Forming

Stratasys offers several FDM materials that can withstand the pressures required for hydroforming including ABS-M30™, polycarbonate (PC), and ULTEM™ 9085 resin. When dealing with rubber pad pressing, 3.0 inch (76.2 mm) tall FDM dies have been successfully cycled on 1000 ton presses using ULTEM™ 9085 resin. Materials tested over FDM form blocks include aluminum alloys, stainless steels, titanium and nickel-based super alloys such as Inconel. These tools have lasted hundreds of cycles showing little to no signs of wear. In one case, a tool lasted 600 cycles without any problems.

System	Fortus 450mc™
Material	ULTEM™ 9085 Resin
Build Time	14 hrs
Forming Pressure	3,000 psi (20.68 MPa)
Max Test Pressure	10,000 psi (68.95 MPa)