

TYPES AND APPLICATION OF INFILL IN FDM PRINTING: REVIEW

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ABSTRACT

3D printing is technology that today has various application in production, through mechanical industry, medicine, civil engineering, food production, etc. Through 3D printing the fabrication of complex geometrical parts using various materials had been made possible.

Fused deposition modeling (FDM) is widely used 3D printing technology. It has found its place from manufacturing consumers products through industrial parts. FDM also has been popular because of low price of commercially used printers and plastic materials such as PLA or ABS. In 3D printing process there are many elements that have great influence on finished product, such as part orientation, used material, support, infill, etc. Part infill have impact on overall part functionality, printing process and material consumption. In this paper it will be discussed the infill types, printing parameters of infill and their functional role in part production for FDM 3D printing.

Key words: 3D printing, FDM, infill