

PLASTIC COMPOSITE HAVING IMPROVED LIGHTNESS AND RIGIDITY

ABSTRACT

Example embodiments provide a plastic composite having a high degree of freedom in molding, significantly improved lightweighting characteristics, and improved rigidity. A plastic composite includes a face sheet layer consisting of poly(methyl methacrylate) (PMMA) or acrylic styrene acrylonitrile (ASA); an long fiber injection (LFI) layer disposed on a lower surface of the face sheet layer and consisting of polyurethane foam including reinforcing fiber; and a rib pattern layer formed on a lower surface of the LFI layer and comprising a plurality of ribs.

Fig. 1