Research Project Title	The Factors Influencing the Strength of Translucent Fiberglass Roofing Tiles of Fiberglass Type, E-Glass.
Credits	6
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Abstract

Nowadays, translucent fiberglass roof tile E-type of fiberglass is has become widely used in industrial applications, three cracking, leaking and degradation is the problem of this material. Three factors that influence the strength of the roof tiles translucent fiberglass. E-types of fiber-glass of 3 variables: the temperature of solidification, the solidification time and the length of the fiber. Were studied specimens were tested to ASTM D638 standard test tensile properties and ASTM D256 standard test Impact properties. It is found that 1 cm. long-fiber specimens with 1 cm. long-fiber were not uniform the strength was found to be around 69.96 N/mm². The specimens with 2 cm. fiber were consistent the strength was around 80.96 N/mm². The strength of 3 cm.-fiber specimens was 77.25 N/mm². The optimum condition was 80 ºC, 15 min clotting time and 2 cm long-fiber to improve tensile properties of the composites. And the strength was found to be 80.96 N/mm².

Keyword: Translucent roof / Fiberglass / Tensile / E-type