

Development of glass foam utilizing waste glasses for insulation and construction application (HCP:054)

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Abstract:

Most important justification is to utilize 90-95% waste glass to develop this glass foam and therefore, it has potential to contribute in circular economy, waste minimization and maximum use of resources, unlike utilization of 20-30% waste in various other product development or immobilization process.

Objective

- Evaluation of Engineering Properties (water absorption, Compressive strength, Bulk density of briquette as per IS: 1077:1992, U value, Sound insulation, etc.
- Thermal performance (temperature profile and energy studies of the developed panel of size 300 mm x 300 mm x 120 mm