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Flexural Behaviour of Sandwich Composite Panels Fabricated Through Different Vacuum Bagging Techniques

Hemanth G., Ramya M. and Padmanabhan K.

Composites Laboratory, SMBS, VIT University, Vellore - 632014, India.

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PIB. (Polytinoxymanule). Vacuum hagging, Modified vacuum bagging, Modified vacuum bag tochnique, Glass labels/spory Eart obert. Three-point bending test. Flexural prosperties.

A.bestmart.

The experimental investigation here focuses on the fabrication of sandwich panels using a single hot vacuum bag, modified vacuum bag, multiple bag and a single hot vacuum bag with platen compression techniques. The present vacuum bagging system cannot be used to prepare sandwich structures when the pressure needs to exceed one bar for bonding considerations. In order to avoid this issue, a new methodology that follows a modified and then a multiple bag technique is proposed to fabricate anotherich panels with high temperature curing of epoxies. Sandwich composites with glass fabric-epoxy face sheet as skin material and a low density thermoset unfilled rigid foam-Polymocymurate (PIR-100kg/ru.m), as core material, are coesidered here. Specimens are tested for flooure for varied spans and at a constant skin to core weight ratio. The flooural strength, rigidity and shear properties are evaluated from the observations to find the influence of the core and span to depth ratios on the respective properties of the sandwich composities.

The work had been presented at an international conference Fatigue Durability India 2015, 28-30th May 2015, IN TATA AUDITORIUM, Indian Institute of Science, Bangalore. © 2015, 06558, All rights presented.

Introduction

A composite material can be defined [1] as a combination of two or more materials that results in better properties than those of the individual constituents. The two main constituents of a composite material are reinforcement and a matrix. The main advantages of composite materials are their high strength and stiffness, combined with low density, when compared with bulk materials, allowing for a weight reduction in the finished part. The reinforcing phase provides the strength and stiffness which may be harder, stronger, and stiffer than the matrix. A sandwich-structured composites [2] are a special class of composite materials, fabricated by attaching two thin but stiff skins to a lightweight, but thick core. These materials have increasingly been used in a variety of industrial applications such as [3] marine, automobile industry, aeronautics, and aerospace as it is convenient for designers to design for specific requirements with precision and work with the desired characteristics, due to high strength to weight ratios. Polyisocyanurate (PIR) [5] foams represent the system of choice to produce Glass fabric-faced sandwich panels, providing energy efficiency and compliance to severe fire safety requirements.

The manufacturing techniques are also seen to contribute [6] toward performance of the composite. Vishakh et. al. [2] and Surya Teja Varma [4] have investigated the flexural properties of foam core glass epocy sandwich composites, followed room temperature vacuum bagging technique. Menta [6] developed a non-autoclave vacuum bag process using atmospheric pressure alone that eliminates the need for external pressure normally supplied by an autoclave or a press is an attractive method for composite fabrication. In order to protect against bag or seal failure, part layups are sometimes 'double bagged'. Double bagging [1] [8]involves placing a first, inner bag over the lay-up which is then sealed to the

tood base. A second, outer bag is placed over the inner bag and is also scaled to the tool base. The various flexural properties of sandwich specimens such as flexural strength, flexural strength per unit width, bending strength per unit width, bending stress, shear strain were obtained under 3 point bending [9][10] to find the sandwich beam flexural and shear stiffness.

Experimental.

Approach of Investigation

The present investigation deals about fabrication of sandwich punels using four different techniques. A Thermo set rigid unfilled polyisocymutate foam (PIR) of density 100kg/m³ is used as core and glass /epoxy as the skin material. The skin to core weight ratio is maintained at 4:1 with volume fraction of 0.3 in the skin for the fibre, and the beams were tested for flexure.

Table 1: Materials Considered For Fabrication

| Material | Name |
|-------------------------------------|---|
| Skin Reinforcement Core Resin | E - Glass Pabric-Plain Weave PBR-100 kg/m ³ LV\$56 |
| Hardener | 101000 |

Table 2: Material Properties of Core

| Peopletties | PER-100 |
|-----------------------|----------|
| Elastic Medabas(M Pa) | 14.6 MPa |
| Punission's Ratio | 0.29 |

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Puja Mehta

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