

Building Materials
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Lecture
Wall Finishes

THERMOCOL

In 1951 the researchers of a German company named BASF successfully restructured chemical bonding of polystyrene (a synthetic petroleum product) molecules and developed a substance named stretch polystyrene. This substance was named Thermocol, which nowadays is manufactured through a simple process. Thermoplastic granules are expanded through application of steam and air. Expanded granules become much larger in size but remain very light





Uses of Thermocol.

1. Thermocol is a type of plastic and has good thermal insulation properties.
2. It can also be molded to any desired shape in Plastic molding machine.
3. Thermocol tiles are used in false ceiling and as face tiles.
4. Thermocol is very light and is not adequately strong. It gets abraded with slight friction. Hence for thermally insulated partitions, it is only a filling material and not a surface material.
5. Thermocol has a good sound insulation properties from sound transfer point of view and from acoustic effects.

