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Polymers in Building and Construction

By Sue Halliwell

Ismithers Rapra Publishing, United Kingdom, 2002. Paperback. Book Condition: New. 300 x 218 mm. Language: English Brand New Book ***** Print on Demand *****.Polymers have become increasingly important as engineering materials in the past decade and applications in the construction industry are expanding. In Europe, around 20 percent of plastic consumption is in this industry, i.e., around 5 million tonnes per year. This review outlines the nature, culture and trends in the building and construction industry. Materials used in construction applications must possess critical properties, depending on the exact use. In general the important property requirements are mechanical, weathering, permeability, flammability and thermal conductivity properties. The environmental impact is also important as global concerns are increasing about pollution, depletion of energy sources and re-use or recycling of waste products. Bulk polymers are used in applications such as pipes and conduit, wire and cable, foundations, fittings, roofing, flooring and insulation. The major use of polymers in the European construction sector is in rigid PVC window profiles. Fibre reinforced plastics have recently been introduced for this application and have the advantage over PVC of not requiring additional reinforcement. PVC, phenol-formaldehyde and polyurethane. Structural foams have also been developed from materials such as...



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