Application of Nanocomposites to Floor Sheet for Railway Vehicle

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Flame resistance is an important requirement for the products of railway vehicle. Heretofore, a halogen-based fire retardant has been mainly applied; however, halogen acid is known to generate a poisonous gas for human being under combustion state. Accordingly, a growing interest has been taken in halogen-free fire retardants. In recent years, the flame resistance of polymeric products has been improved remarkably by application of nanocomposites technology because nanocomposites improve their properties including flame resistance with small percent of additives. Therefore, the application of nanocomposites to the floor sheet of railway vehicle has been studied.