



IS 17757: 2022- Textiles Automotive Tufted Floor Covering Specification

Textile materials are used in automobiles for interior trims to ensure comfort and ambience. Automotive floor covering protect the floor of vehicle from dirt, mud and spillage of food and drinks. Floor covering also prevents the base of vehicle from corrosion and glasses from fogging.

Automotive floor coverings are subjected to trafficking in which the assessment of change in appearance is most important. Further, tensile strength, tear strength, permissible elongation, compression ratio, fogging, flame resistance, etc. are also important.

The Indian Standard 17757:2022 is a specification for automotive tufted floor coverings. It outlines the requirements for design, dimensions, testing procedures and packing to ensure the quality and performance of automotive tufted floor coverings.

Various methods to assess the change in appearance due to effect of varied water, after exposure to heat and humidity, determination of fibre bind through lisson tetrad test, castor chair test and hexapod tumbler test have been specified.

To ensure the safety of the vehicle, stringent requirements for flame retardancy of floor covering has been specified along with other performance requirements.

Apart from above, requirements for sound absorption and transmission loss have also been specified as optional requirements, depending upon the type and style of vehicle.

In summary, this standard ensures that the automotive tufted floor coverings are durable, effective and of optimal quality.