

2.1.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D 471 Standard Test Method for Rubber Property—Effect of Liquids

ASTM D 573 Standard Test Method for Rubber—Deterioration in an Air Oven

ASTM D 750 Standard Test Method for Rubber Deterioration in Carbon-Arc Weathering Apparatus

ASTM D 1171 Standard Test Method for Rubber Deterioration—Surface Ozone Cracking Outdoors or Chamber

3. DEFINITIONS

3.1 Snowmobile

As defined in SAE J33 Definitions for Snowmobiles.

3.2 Passenger

A person traveling on a snowmobile positioned behind the operator, but not controlling the vehicle.

3.3 Handgrip

A device or feature on a snowmobile intended to be grasped by the passenger to maintain balance and stability during operation.

3.4 Designated Seating Position

Any position intended by the manufacturer to provide accommodations for a 95th percentile adult male.

4. REQUIREMENTS

4.1 Functionability

A passenger handgrip shall be designed so that its ability to function effectively is not adversely affected by climatic or atmospheric conditions (such as aging, ozone, sunlight, petrochemicals, and dirt). These parameters to be checked per the applicable ASTM standard.

4.2 Location

Either a single passenger handgrip or a double passenger handgrip, or both, shall be provided for each designated passenger position. A single handgrip shall be located directly in front of every seating position or double handgrips shall be provided, one on each side of the seating position. All passenger handgrips shall be large enough and so positioned to be easily grasped by a 95th percentile adult male wearing heavy Arctic mittens.

4.3 Loading

Every passenger handgrip shall be attached to a load-carrying part of the snowmobile and shall be capable of withstanding an 1800 N (400 lb) tensile force applied in the vertical plane and a 900 N (200 lb) tensile force applied in the horizontal plane, without failure of either the handgrip or its attach mechanism from the vehicle.

4.3.1 Any handgrip not rigidly attached to the snowmobile shall be affixed so it automatically returns to a position that is readily accessible.