

**CHAPTER 161. GLAZING MATERIALS**

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**Authority**

The provisions of this Chapter 161 issued under the Vehicle Code, 75 Pa.C.S. §§ 4103 and 4526, unless otherwise noted.

**Source**

The provisions of this Chapter 151 adopted September 30, 1977, effective October 1, 1977, 7 Pa.B. 2809, unless otherwise noted.

**Cross References**

This chapter cited in 67 Pa. Code § 175.67 (relating to glazing); 67 Pa. Code § 175.97 (relating to glazing); 67 Pa. Code § 175.126 (relating to glazing); 67 Pa. Code § 175.147 (relating to glazing); 67 Pa. Code § 175.176 (relating to glazing); and 67 Pa. Code § 175.226 (relating to glazing).

**§ 161.1. Scope.**

This chapter specifies requirements for glazing materials for use in motor vehicles and motor vehicle equipment.

**§ 161.2. Purpose.**

The purpose of this chapter is to reduce injuries resulting from impact to glazing surfaces, to ensure a necessary degree of transparency in motor vehicle windows for driver visibility, and to minimize the possibility of occupants being thrown through the vehicle windows in collisions.

**§ 161.3. Application.**

This chapter shall apply to glazing materials for use in passenger cars, multi-purpose passenger vehicles, trucks, buses, motorcycles, slide-in campers and pickup covers designed to carry persons while in motion.

**§ 161.4. Definitions.**

The following words and terms, when used in this chapter, have the following meanings, unless the context clearly indicates otherwise:

*Camper*—A structure designed to be mounted in the cargo area of a truck, or attached to an incomplete vehicle with motive power, for the purpose of providing shelter for persons.

*Motor home*—A multipurpose passenger vehicle that provides living accommodations for persons.

*Pickup cover*—A camper having a roof and sides but without a floor, designed to be mounted on and removable from the cargo area of a truck by the user.

*Slide-in camper*—A camper having a roof, floor, and sides, designed to be mounted on and removable from the cargo area of a truck by the user.

### § 161.5. Requirements.

(a) *Materials.* Requirements for materials are as follows:

(1) Glazing materials for use in motor vehicles, except as otherwise provided in this chapter, shall conform to the American National Standard “Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways,” Z26.1-1966, July 15, 1966, as supplemented by Z26.1a-1969, March 7, 1969, referred to in this chapter as “ANS Z26.”

(i) The chemicals specified for testing chemical resistance in Tests Nos. 19 and 20 of ANS Z26 shall be:

- (A) One percent solution of nonabrasive soap.
- (B) Kerosene.
- (C) Undiluted denatured alcohol, Formula SD No. 30 (one part 100% methyl alcohol in ten parts 190 proof ethyl alcohol by volume).
- (D) Commercial motor car gasoline.

(ii) The following locations shall be added to the lists specified in ANS Z26 in which item 4, item 5, item 8 and item 9 safety glazing may be used:

- (A)—(I) [Reserved].
- (J) Windows and doors in motor homes, except for the windshield and windows to the immediate right or left of the driver.
- (K) Windows and doors in slide-in campers and pickup covers.

(iii) The following locations shall be added to the lists specified in ANS Z26 in which item 6 and item 7 safety glazing may be used:

- (A)—(I) [Reserved].
- (J) Windows and doors in motor homes, except for the windshield, forward-facing windows, and windows to the immediate right or left of the driver.
- (K) Windows, except forward-facing windows, and doors in slide-in campers and pickup covers.

(iv) The phrase “readily removable” windows as defined in ANS Z26, for the purposes of this chapter, in buses having a GVWR of more than 10,000 pounds, shall include pushout windows and windows mounted in emergency exits that can be manually pushed out of their location in the vehicle without the use of tools, regardless of whether such windows remain hinged at one side to the vehicle.

(v) Except as otherwise specifically provided by this standard, glazing for use in multipurpose passenger vehicles shall conform to the requirements for glazing for use in trucks as specified in ANS Z26.

(2) In addition to the glazing materials specified in ANS Z26, materials conforming to subparagraphs (i) and (ii) may be used in the locations of motor vehicles specified in those sections.

(i) *Item 12—rigid plastics.* Safety plastic materials that comply with Tests Numbers 10, 13, 16, 17, 21 and 24 of ANS Z26, Tests Numbers 19 and 20 of ANS Z26 with the exception of the test for resistance to undiluted denatured alcohol Formula SD No. 30, and the labeling requirements of subparagraph (iii), may be used in a motor vehicle only in the following specific location at levels not requisite for driving visibility:

- (A) Windows and doors in slide-in campers and pickup covers.
- (B) Motorcycle windscreens below the intersection of a horizontal plane 15 inches vertically above the lowest seating position.
- (C) Standee windows in buses.
- (D) Interior partitions.
- (E) Openings in the roof.
- (F) Flexible curtains or readily removable windows or in ventilators used in conjunction with readily removable windows.
- (G) Windows and doors in motor homes, except for the windshield and windows to the immediate right or left of the driver.

(ii) *Item 13—flexible plastics.* Safety plastic materials that comply with Tests Numbers 16, 22, and 23 or 24 of ANS Z26, Tests Numbers 19 and 20 of ANS Z26 with the exception of the test for resistance to undiluted denatured alcohol Formula SD No. 30, and the labeling requirements of subparagraph (iii), may be used in a motor vehicle only in the following specific locations at levels not requisite for driving visibility:

- (A) Windows, except forward-facing windows, and doors in slide-in campers and pickup covers.
- (B) Motorcycle windscreens below the intersection of a horizontal plane 15 inches vertically above the lowest seating position.
- (C) Standee windows in buses.
- (D) Interior partitions.
- (E) Openings in the roof.
- (F) Flexible curtains or readily removable windows or in ventilators used in conjunction with readily removable windows.
- (G) Windows and doors in motor homes, except for the windshield, forward-facing windows, and windows to the immediate right or left of the driver.

(iii) *Cleaning instructions.* Each manufacturer of glazing materials designed to meet the requirements of subparagraphs (i) and (ii) shall affix a label, removable by hand, to each item of such glazing material. The label

shall specify instructions and agents for cleaning the material that will minimize the loss of transparency.

(b) *Edges.* In vehicles except schoolbuses, exposed edges shall be treated in accordance with SAE Recommended Practice J673a, "Automotive Glazing," August 1967. In schoolbuses, exposed edges shall be banded.

#### Cross References

This section cited in 67 Pa. Code § 161.6 (relating to certification and marking).

### § 161.6. Certification and marking.

(a) *Marking.* Each prime glazing material manufacturer, except as specified below, shall mark glazing materials manufactured by him in accordance with section 6 of ANS Z26. The materials specified in § 161.5(a)(2)(i) and (ii) (relating to requirements) shall be identified by the marks "AS 12" and "AS 13" respectively. A prime glazing material manufacturer shall be one who fabricates, laminates, or tempers the glazing material.

(b) *Certification.* Each prime glazing material manufacturer shall certify each piece of glazing material to which this chapter applies that is designed as a component of any specific motor vehicle or camper, pursuant to section 114 of the National Traffic and Motor Vehicle Safety Act of 1966, by adding to the mark required by subsection (a) in letters and numerals of the size specified in section 6 of ANS Z26, the symbol "DOT" and a code mark of a manufacturer, which will be assigned by the NHTSA on the written request of the manufacturer.

(c) *Certification of components.* Each prime glazing material manufacturer shall certify each piece of glazing material to which this chapter applies that is designed to be cut into components for use in motor vehicles or items of motor vehicle equipment, pursuant to section 114 of the National Traffic and Motor Vehicle Safety Act (15 U.S.C.A. § 1403).

(d) *Marking by manufacturer or distributor.* Each manufacturer or distributor who cuts a section of glazing material to which this chapter applies, for use in a motor vehicle or camper, shall mark that material in accordance with section 6 of ANS Z26.

(e) *Certification by manufacturer or distributor.* Each manufacturer or distributor who cuts a section of glazing material to which this chapter applies, for use in a motor vehicle or camper, shall certify that his product complies with this chapter in accordance with section 114 of the National Traffic and Motor Vehicle Safety Act (15 U.S.C.A. § 1403).

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