



IS 9973 : 1981 Specification for visor for scooter helmets

The visor for scooter helmets plays a crucial role in safeguarding the rider's eyes and face from various external elements during riding. It is typically made of transparent, shatter-resistant materials, such as polycarbonate or acrylic, to provide protection against wind, dust, debris, and harmful ultraviolet (UV) rays, while maintaining clear visibility. Scooter helmets, which are essential protective gear for riders, must meet strict safety standards to minimize injuries during accidents. The Indian Standard IS 9973:1981 specifies the requirements for these visors, ensuring they meet performance, safety, and durability benchmarks for effective protection.

The standard emphasizes the design and material used for the visor. It mandates that the visor must be constructed from durable, transparent, and shatter-resistant materials to withstand impacts and abrasion without cracking or breaking.

Size and shape are also critical factors in ensuring that the visor fits securely and comfortably on the helmet. The visor must provide full coverage of the rider's face and eyes while allowing an unobstructed field of vision.

In addition to design considerations, optical clarity is paramount. The visor must be free from any imperfections, bubbles, or irregularities that could compromise visibility, especially in challenging riding conditions like rain or fog. It should provide optical clarity without distortion, ensuring that the rider can see the road and surrounding environment clearly at all times.

The standard also outlines essential safety features such as anti-fog and anti-scratch coatings. The visor should be designed to minimize fogging, which can occur due to changes in temperature and humidity, as fogging can significantly impair the rider's vision. An anti-scratch coating is also required to prevent scratches from reducing the effectiveness of the visor or weakening its structural integrity.

Finally, the standard covers marking and labelling requirements to ensure proper identification and traceability. Each visor must be clearly marked with the manufacturer's name, model number, and any relevant certification marks, indicating that the product complies with safety and quality standards.

IS 9973:1981 provides a comprehensive set of guidelines for the design, materials, performance, and safety of visors used in scooter helmets. By adhering to these standards, manufacturers can produce visors that are both durable and effective in protecting riders from environmental hazards while ensuring clear visibility. The standard not only guarantees that the visors meet high safety criteria, but also assures consumers that the visors they use provide adequate protection from impacts, UV rays, and other risks, making it a vital specification for helmet manufacturers and riders alike.