

Performance Specification: SuperStrength Medium

SuperStrength Medium is a 3-layer polyethylene-based film with excellent puncture & tear resistance. SuperStrength Medium can be transparent to enable contents to be viewed, or it may be opaque for confidentiality.

Security bags made from Superstrength Medium have been successfully tested and proven to carry contents weighing up to at least 3kg. To ensure that this standard is controlled a range of laboratory tests are carried out on the technical characteristics of the film. The tests and the minimum measurements required are detailed below.

Material impact strength

Impact tests illustrate how the polythene will perform when external forces are applied and relate to how well a bag will resist when dropped. Impact is measured in grams. The minimum impact strength of Superstrength Medium is 150g.

Material tensile strength

Ultimate tensile tests measure the stretch-resistance of the polythene and how much force the film will resist before breaking. Superstrength Medium has a minimum ultimate tensile strength of 2.5kg/f.

Material tear strength

The Elmendorf test method is used to measure the tear resistance of Superstrength films. During this test, a large amount of pressure is exerted where a small tear has already been made in the polythene. The test measures how well the polythene resists. Superstrength Medium achieves a measure of 450+.

Heat seal strength

The heat seal strength of security bags made from Superstrength Medium is $\geq 2.5\text{kg/f}$.

Puncture resistance

Superstrength Medium has a puncture resistance of 1.5kg/f.

Melt Point

SuperStrength Medium will melt between 124°C and 155°C.

SuperStrength Opaque Medium: Opacity

Opacity is a minimum of 90%

The plastics components used in the manufacture of Superstrength are a blend of high density and linear low-density polyethylene. A proportion of recycled polyethylene from known sources is included during manufacture. Mineral fillers are used to achieve the opacity of the film. All these materials are essentially inert and will cause no health and safety problems when used as a security bag.

Superstrength film contains recycled materials and is suitable for recycling after use – the symbol printed on each bag indicates the appropriate recycling channel.

Ampac aims to ensure the accuracy and relevance of the information given in this specification. However, the company has no control over the end use of the product so information presented here is not intended to substitute for customers' own testing and evaluation of the bags' fitness for purpose.