

**Purpose of Test**

Gorilla Bags are used as a protective layer over barrier wrapping packages in steam sterilisation. Gorilla Bags are used for temperatures up to 137°C from 3 min up to 30 min. Tests were carried out with steam sterilisation at 135°C for 30 min to show that there is no degradation of the material during steam sterilisation and therefore Gorilla Bags can be used from 3 to 30 min in a steam sterilisation process for temperatures up to 137°C.

**Test**

**4 samples of Gorilla Bag material were sterilised at 135°C for 30 min. Average Tensile Strength was measured before and after sterilisation.**

	ISO 11607-2 REQUIREMENTS	Pre Sterilisation	Post Sterilisation
Tensile Strength MD	>1kN/m	3.3 KN/m	3.1kN/m

**After sterilisation, there was a small decrease in Tensile Strength. These results show that Gorilla Bag is minimally affected by a longer cycle of 30 min steam.**

**Test**

**4 samples of Gorilla Bag material was sterilised at 135°C for 30 min. Average Tensile Strength was measured before and after sterilisation.**

	Recommended rate	Pre Sterilisation	Post Sterilisation
Permeability	500/m <sup>2</sup> /s	1980l/m <sup>2</sup> /s	1869/m <sup>2</sup> /s

**After sterilisation, there was a small decrease in the permeability. These results show that Gorilla Bag has permeability far in excess of what is required after a maximum cycle of 30 min.**

**Conclusion**

Steam sterilisation at 135°C from 3 min up to 30 min has a minimal effect on this outer wrapping material. All results meet the ISO requirement and hence perform as it is intended. It preforms without any implications on effectiveness of the inner barrier material that may be used.

