

Ceremo Bag With Patented “Proguard Film”

Proguard Film is a specially formed, patented 3-layered impermeable film:

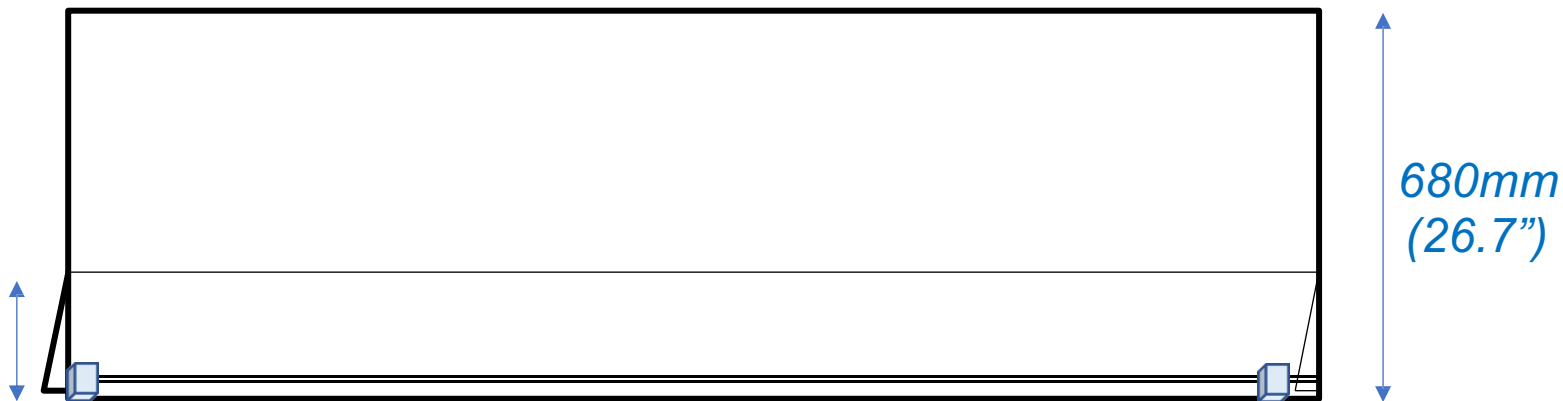
- *Inner antibacterial layer
- *Middle gas and odor barrier
- *Outer protective layer



Length 2,200mm (7.2')

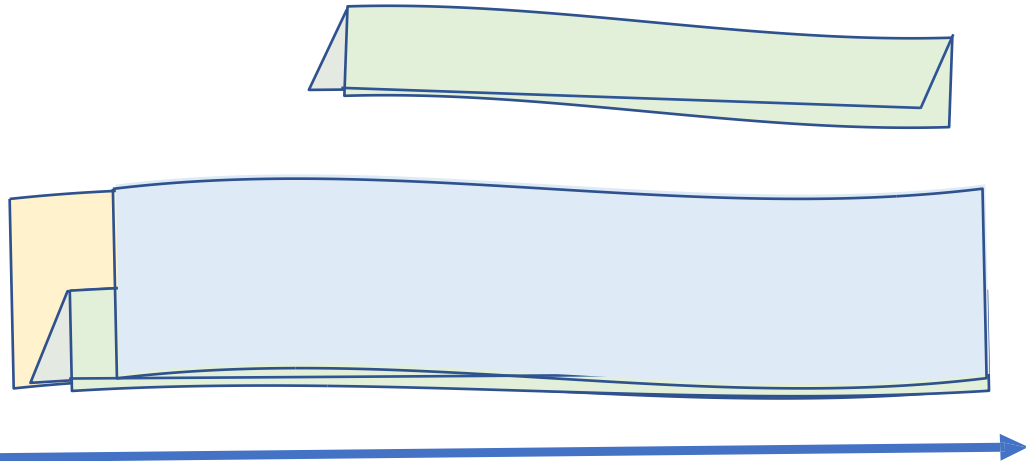
Opening
Width
190mm
(7.4")

380mm (14.9")
When opened



Process to Manufacture Ceremo Inner Bags with “Proguard Film”

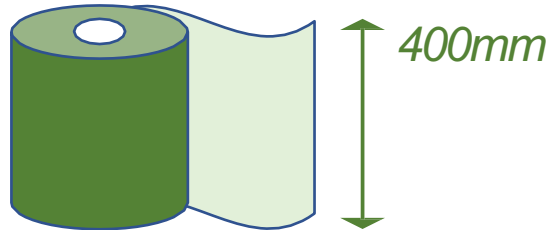
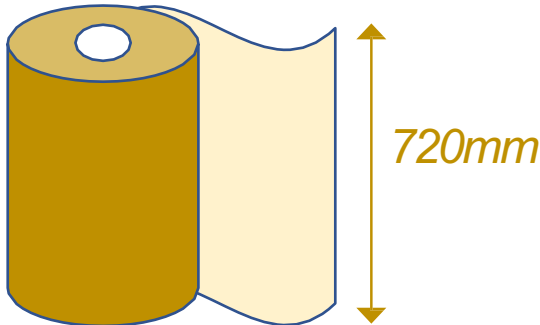
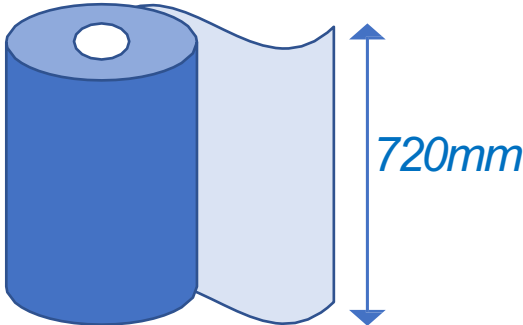
3 rolls of Proguard Film are required to manufacture the Ceremo Bag. A gusset for the opening is folded in half, and pressed between the inner and outer films, the zipper is added, and it's all run through a pressing machine and heat sealed around the seams.



① Outer layer
720mm (28.3" wide)

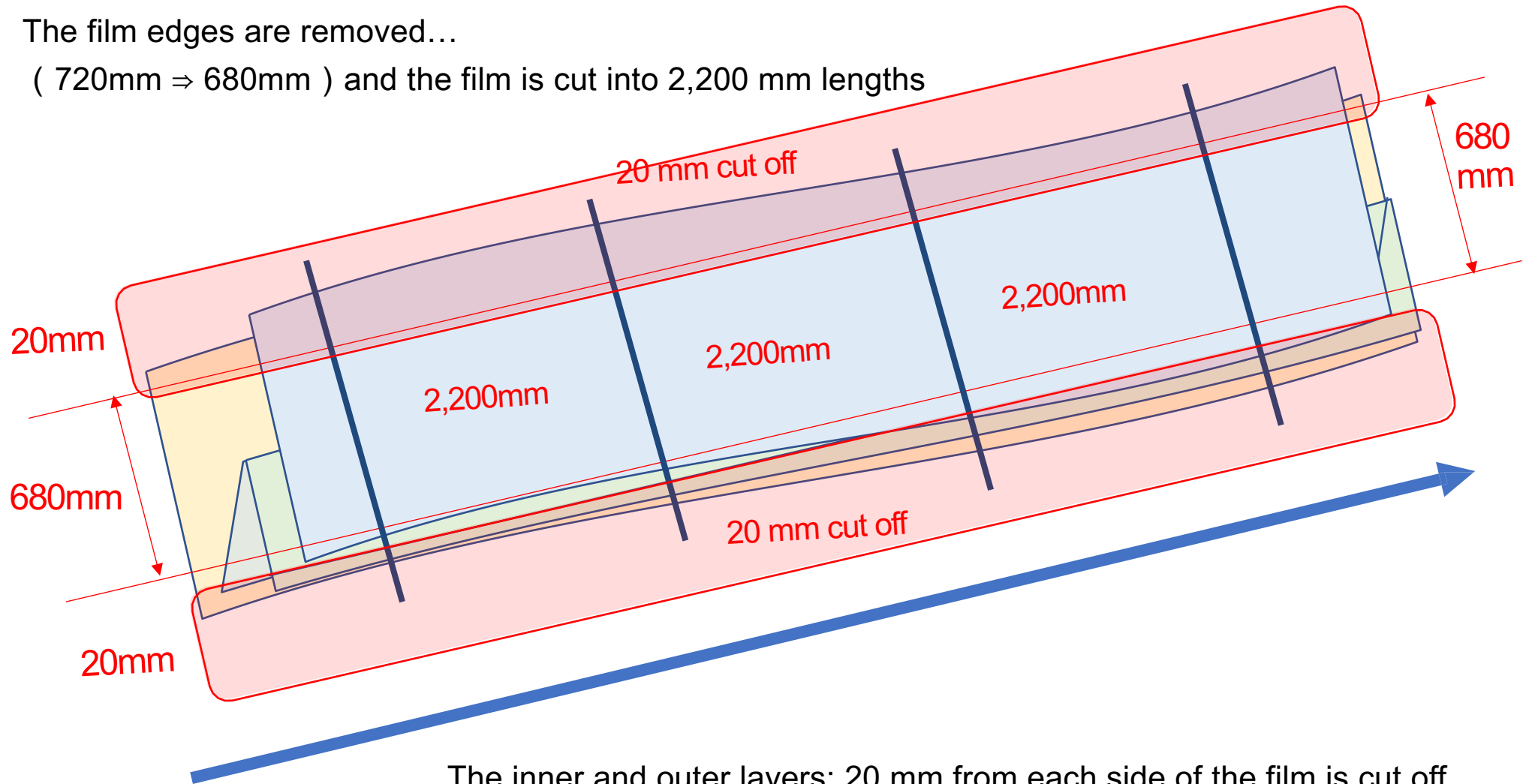
② Inner layer
720mm (28.3" wide)

③ Gusset for the opening
portion 400mm (15.7" wide)



The film edges are removed...

(720mm \Rightarrow 680mm) and the film is cut into 2,200 mm lengths

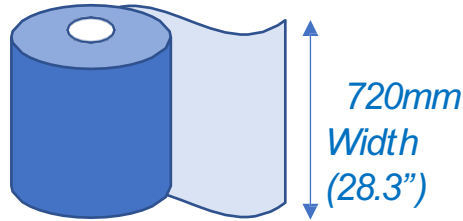


The inner and outer layers; 20 mm from each side of the film is cut off, creating a width of 680 mm. The gusset portion has 10 mm on each side removed.

- The total amount of Proguard Film needed to manufacture Ceremo Bags

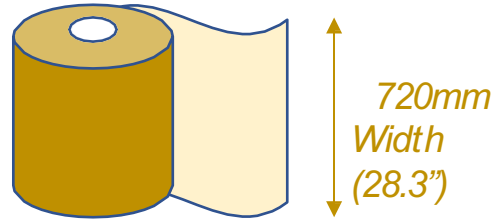
✳The most economical use of the materials per manufacturing run

① Outer layer roll



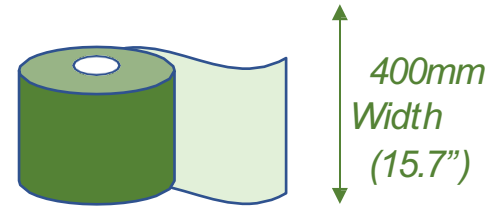
About 15,000 meters

② Inner layer roll



About 15,000 meters

③ Gusset material roll



About 15,000 meters

The Outer layer and inner layers total size **720mm (28.3" wide) × About 30,000 meters**
(2,000 meters x15 rolls)

The Gusset portion size is **400mm (15.7") wide × About 15,000 meters**
(2,000 meters x7 rolls、 1,000 meters x1 roll)

15,000 meters (3 layers of 15,000 meters each) cut into lengths of 2,200mm:
 $15,000\text{m} / 2,200\text{mm} = 6,818$ bags.

Cutting loss of material is 13% $6,818 \text{ bags} \times 13\% = 5,931 \text{ bags} \Rightarrow$

Roughly 6,000 Ceremo Bags