

Addition of a virucidal functionality on one or more layers of PPE

Customer Challenge

Risk of self- and cross-contamination due to viral contamination of face masks

The performance criteria of surgical face masks should not be affected by the virucidal treatment

Solution

Grafting of citric acid nanolayer onto the PP non-woven material using MolecularGRIP™ technology

Roll-to-roll treatment of the non-woven prior to making the face masks

Results

99% reduction of viral load in 10 minutes

Treatment speed up to 30m/min

Super-safe solution using a natural food ingredient

Very low TCO

Highly scalable process