

SABIC PURECARES™ PORTFOLIO FOR MEDICAL DISPOSABLES

The nonwoven industry is a very demanding market, in terms of both technical performance requirements and material properties. For nonwovens used for medical disposable applications such as surgical gowns and masks, performance comes from the correct material selection and how to deliver the performance. As a strategic material supplier to the sector, SABIC is supporting its customers by offering a broad portfolio of polymers for nonwovens used in making of hygiene products. **SABIC PURECARES™** polymer portfolio offers polypropylene (PP) products engineered with phthalate-free, single-material technology to deliver enhanced properties in spunbond and melt-blown fibers for nonwoven fabrics. Medical disposable gowns and masks are one part of an overall infection-control strategy and they are used as personal protective equipment in healthcare settings. They are aimed to protect the user from the spread of infection or illness if the user comes in contact with potentially infectious liquid or solid material. **SABIC PURECARES™** melt-blown and spunbond polymers used in nonwovens for these applications deliver critical properties for the safety of patients and medical staff because of their high levels of efficiency to control sterility.

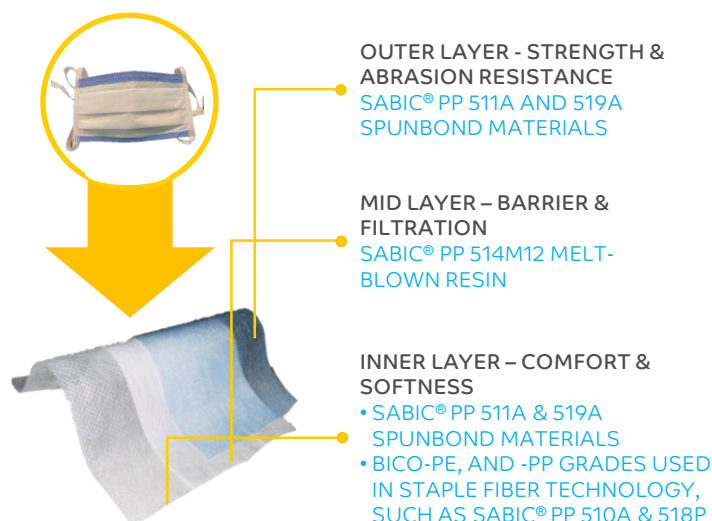
MATERIAL SOLUTIONS

SABIC PURECARES™ polymer portfolio includes the new melt-blown product SABIC® PP 514M12 resin that offers easy flow, excellent fiber uniformity and barrier properties for excellent breathability. Made with phthalate-free technology, SABIC® PP 514M12 melt-blown fiber grade can serve a wide range of potential end-use in nonwovens for hygiene and medical disposable applications. Moreover, this polymer aims to provide high purity and enhanced consumer convenience over incumbent melt-blown resins and benchmark blends. This new product is supplied in regular pellet form, which facilitates ease of handling, storage, and use.

SABIC® PP 511A and 519A spunbond resins under SABIC PURECARES™ polymer portfolio are a homo-polypropylene with a strong track record for successful use in spunbond nonwoven applications. SABIC® PP 514M12 melt-blown and SABIC® PP 511A/519A spunbond polypropylene materials are used for disposable medical nonwovens based on phthalate-free technology. The resulting nonwovens using SMS*structure, are developed to combine high barrier properties and absorption with breathability in thin, lightweight and high-performance webs of enhanced conformability and reduced material consumption.

*S: spunbond, M: melt-blown

TYPICAL SINGLE-USE MEDICAL FACE MASK



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*For typical process for the production of single- use medical face masks [click here](#). Protective masks such as FFP2 or FFP3 are made in a similar way, but composed of 3 to 5 layers of nonwovens (made through a range of processes). Production include thermo forming as the final products are 3 dimensional for optimal fit.
Source EDANA

For full SABIC PURECARES™ portfolio [click here](#).

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