

Advancing Full *Purell* resins solution for Healthcare Textile applications

Polyolefin grades for meltblown and spunbond nonwovens



LyondellBasell *Purell* resins product portfolio is extending with new grades intended to be used for meltblown and spunbond extrusion, meeting the high quality standards in healthcare applications. Those grades are characterized by excellent homogeneity and high purity, very high melt flow rate are typically used in the production of nonwovens fabrics with outstanding barrier and filtration properties.

They can be easily converted by traditional meltblown or spunbond machines for the production of fabrics for different uses in healthcare (e.g. face masks layers, protective clothes).

All of them are produced with a non-phthalate based catalytic system and non-animal derived additives.

Purell grade **HP570Y** and *Purell* grade **HP570Z** are polypropylene homopolymers with narrow molecular weight distribution. They exhibit a very high flowability which contributes to the production of MFR of 1500. This contributes to the production of finer filaments, for meltblown nonwovens characterized by outstanding barrier properties.

Purell grade **HP571R** is a polypropylene homopolymer. It has a very narrow molecular weight distribution and is formulated with an anti-gas fading package. It offers exceptional tenacity and is typically used for spunbond nonwovens of light-weight fabrics.

As part of the *Purell* family of grades, these products benefit from LyondellBasell *Purell* Service Concept developed for customers in the Healthcare industry.

Features and Benefits

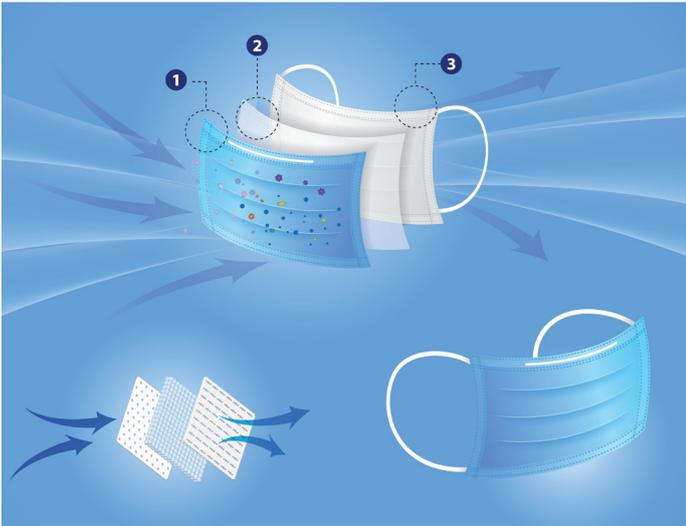
- Excellent purity
- Outstanding barrier/filtration properties
- Light-weight fabrics
- Superior filament strength

Some typical applications

- Face masks
- Surgical drapes & gowns
- Adult incontinence pants
- Ostomy bags
- Hygiene, sanitary products

Typical Properties	Test Method	Unit	<i>Purell</i> HP570Y	<i>Purell</i> HP570Z	<i>Purell</i> HP571R
MFR (@ 30°C/2.16kg)	ISO 1133	dg/min	1200	1500	25

Note: Typical properties, not to be considered as specifications



EXAMPLE OF LAYERS STRUCTURE IN FACE MASKS

1. Outer layer	Spunbond	<i>Purell</i> HP571R
2. Middle layer	Meltblown	<i>Purell</i> HP570Y or <i>Purell</i> HP570Z
3. Inner layer	Spunbond	<i>Purell</i> HP571R

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