

PRODUCT INFORMATION

Advancing Full *Purell* resins solution for film used for Infusion Bags

Polyolefin grades for cast film and/or blown film extrusion



LyondellBasell's *Purell* resins product portfolio includes grades intended to be used for cast film and/or blown film extrusion, meeting the high quality standards in healthcare applications. Those grades are characterized by excellent homogeneity and melt strength, providing high film quality, surface smoothness, planarity, aesthetics.

They can be easily converted by cast extrusion or blown film extrusion for the production of different structures of film for infusion bags.

The combination of the different grades allow on the final film a good balance of optical, physical and mechanical properties. All of them are produced with a non-phthalate based catalytic system.

***Purell* RP370M** and ***Purell* RP270G** are polypropylene random copolymers. They exhibit good clarity and softness. This contributes to the production of end applications that require superior optical properties such as gloss, transparency, good tear and impact resistance. They also offer excellent sealing properties in film structures. Those materials do not contain anti-blocking, slip or other internal and surface lubricants.

***Purell* HP570M** is a polypropylene homopolymer. It offers excellent thermal stability and high scratch resistance.

***Purell* KTMR07** is a high-molecular-weight PB-1 plastomer, highly compatible with polypropylene. It offers outstanding softness, flexibility, elasticity and transparency, enhancing optical and mechanical properties when blended with other *Purell* polypropylene grades.

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

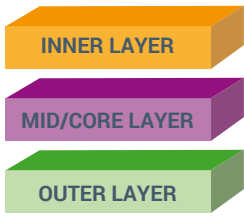
Features and Benefits

- Low gel content with outstanding optical and aesthetic properties
- Excellent sealing performance and heat weldability
- Excellent thermal stability
- Wide processing window
- Excellent balance of mechanical and optical properties

Some typical applications

- IV bags
- Healthcare film applications for primary/secondary packaging

EXAMPLE OF FILM STRUCTURE:

Main Requirements		Polymeric Approach	Purell solution
Good Sealing, stickiness, no slip & antistatic		PP RACO + plastomer	<i>Purell</i> RP370M + <i>Purell</i> KTMR07
Transparency, mechanicals, flexibility, melt strength		PP RACO + plastomer	<i>Purell</i> RP370M and/or <i>Purell</i> RP270G + <i>Purell</i> KTMR07
Thermal stability, scratch resistance, printability		PP HOMO	<i>Purell</i> HP570M

Resin Properties

Typical Properties	Method	Unit	<i>Purell</i> HP570M	<i>Purell</i> RP270G	<i>Purell</i> RP370M	<i>Purell</i> KTMR07
MFR (@ 230°C/2.16kg)	ISO 1133	g/10min	7.5	1.8	8.0	1.3*
Tensile Modulus	ISO 527-1,-2	MPa	1400	1000	850	<10
Melting Temperature	ISO 11357	°C	161	147	143	-

Note: Typical properties, not to be construed as specifications

*MFR (190°C/2.16kg) (g/10min)

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