

Full polyolefin solutions for medical bags

Polyolefin grades for cast film and/or blown film extrusion



The LYB *Purell* and *Adflex* resins product portfolio includes grades intended to be used for cast film and/or blown film extrusion (air quenching and water quenching), 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.

The film obtained with LYB *Purell* and *Adflex* resins can be used to produce different structures of film for medical bags.

The combination of the different grades allow a good balance of optical, physical and mechanical properties. All LYB resin for these applications are produced with a non-phthalate based catalytic system.

- **Purell HP572M and Purell HP570M** are polypropylene homopolymers that offer excellent thermal stability and high scratch resistance.
- **Purell RP370M and Purell RP270G** are polypropylene random copolymers that exhibit clarity, softness, impact resistance, while also offering excellent sealing properties of the film structures.
- **Purell SP170G** is a polypropylene random copolymer that provides an excellent balance of mechanical softness and toughness, and optical properties (transparency). It also offers excellent sealing properties combined with great processability.
- **Super Soft** grade is a polypropylene heterophasic copolymer that combines transparency with high softness and high toughness at low temperatures.
- **Purell KT MR 07** is a PB-1 plastomer that is highly compatible with polypropylene. It offers outstanding softness, flexibility, elasticity and transparency while enhancing optical and mechanical properties when blended with other Purell polypropylene grades.

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

Typical applications

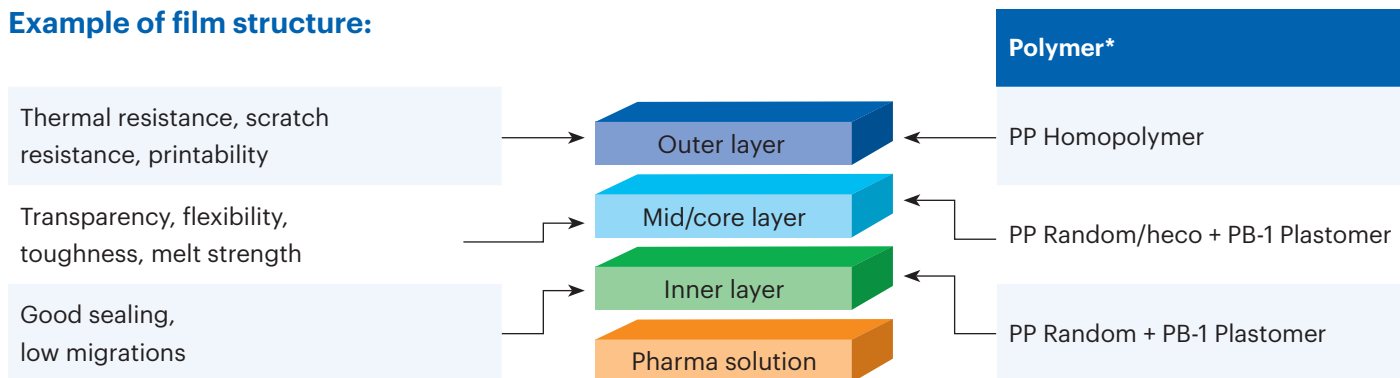


Medical and IV bags



Healthcare film applications for primary/secondary packaging

Example of film structure:



(*) Detailed information will be shared under confidential agreement.

Resin properties

Properties	Purell HP572M HP570M	Purell RP270G	Purell RP370M	Purell SP170G	Super Soft	Purell KT MR 07
Type	HOMO	RACO	RACO	SUPER RACO	HECO	PLASTOMER
Key property	Thermal stability	Transparency, sealing	Transparency, sealing	Better transparency and sealing	Softness	Softness, transparency
Regulatory	EP, USP, non phthalate, no tallow					USP, non phthalate
MFR (@ 230°C/2.16kg) (g/10 min)	7.5	1.8	8.0	1.5	6.0	1.3 (190°C)
Tensile modulus (MPa)	1400	1000	850	600	200	<10
Melting temperature (°C)	161	144	144	136	142	-
Vicat softening point A/50 (°C)	154	136	135	126	80	-

Note: Typical properties, not to be construed as specifications

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