



IN MEDICAL APPLICATIONS

ADVANTAGES OF USING PEBAX®

Pebax® is used in a variety of medical applications due to its:

- **Biocompatibility**

Pebax® SA grades comply with USP class VI*.

- **Sterilizability**

Pebax® can be sterilized by ethylene oxide process, steam and gamma radiation (up to 10 Mrads).

- **Outstanding mechanical properties**

Pebax® offers a wide range of performances: light weight, wide range of flexibility, outstanding physical properties and chemical resistance, and a wide range of processing techniques*.

- **Breathability**

Films extruded from breathable Pebax® are thoroughly waterproof while maintaining their permeability to moisture vapor. Because Pebax® films are non-porous, they are used as microbial barrier protection. Due to their nature, they also possess antistatic properties, which are used to prevent dust attraction.



PEBAX® SOLUTIONS

APPLICATIONS	MAIN PROPERTIES	MEDICAL DEVICES	PEBAX® SOLUTIONS
TUBING	<ul style="list-style-type: none"> • Softness and flexibility • Elastic/shape memory • Kinking resistance • Torques transference • Low coefficient of friction • Resistance to pressure • Can be compounded with radiopaque fillers (20-50%) • Can be used in co-extrusion with TPU 	Angiography and angioplasty catheters	Pebax® 7233SA Pebax® 7033SA Pebax® 6333SA
		Urology catheters	Pebax® 2533SA Pebax® 3533SA
		Connectors for catheters	Pebax® 3533SA Pebax® MX1205SA
DENTAL FLOSS	<ul style="list-style-type: none"> • Low coefficient of friction • Sliding effect • Good compromise between strength and softness 	Coating of the floss	Pebax® 2533SA
FILMS	<ul style="list-style-type: none"> • Breathability • Waterproof and barrier protection • Antistatic properties • Washable 	<ul style="list-style-type: none"> • Disposable surgery gowns and gloves, mattress covers, wound dressings • Clean room applications • Medical adhesives (bandage) and transdermal patches • Baby diapers 	Pebax® MV3000 SA Pebax® MH1657 Pebax® MV1074 SA

PEBAX® GRADES HAVE A LOW COEFFICIENT OF FRICTION

	PEBAX® 2533	PEBAX® 3533	PEBAX® 6333	PEBAX® 7033
STEEL	0.61	0.61	0.26	0.22
TEFLON	0.51	0.30	0.17	0.14
NYLON 11	1.02	1.00	0.19	0.17
PMMA	1.12	1.11	0.87	0.68
POM			0.70	0.31
PEBAX® 6333			0.27	
PEBAX® 7033				0.23

Dynamic friction coefficient of Pebax® grades according to ASTM D 1894 method.

BREATHABILITY OF PEBAX® FILMS

Pebax® Grades	BW-Water Method 50% RH - 38°C		E Method 90% RH - 38°C	
	15µm	25µm	15µm	25µm
MV 3000	25,000	20,000	4,000	3,300
MV 6100	8,000	7,000	2,200	2,000

MVTR ASTM E96 (g/m²/24h)

* However, we point out that it is the duty of the end user to check, in accordance with professional practice, the reciprocal compatibility of the material and the packaged foodstuffs (respective of Overall and Specific Migration Limits) and also that organoleptic characteristics of the latter remain constant. Due to the evolution of regulations or existing specific restrictions, it is necessary before any usage in food contact to request the related certificates from our commercial representatives.

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