

MOBILIZE

Lubricious Compounds for Surface Friction Management

Lubricious solutions in:

- Polyolefins
 - * LLDPE
 - * LDPE
 - * HDPE
 - * PP
- Styrenics
 - * CPS
 - * HIPS
 - * SAN
 - * ABS
- Polyester
 - * PET
 - * PBT
- Polycarbonates
- Polyamides
 - * 6
 - * 6/6
 - * 6/10
 - * 12
 - * 6/12
- Polyurethanes
- Thermoplastic Elastomers
 - * Hytrel
 - * Pebax
 - * SBCs

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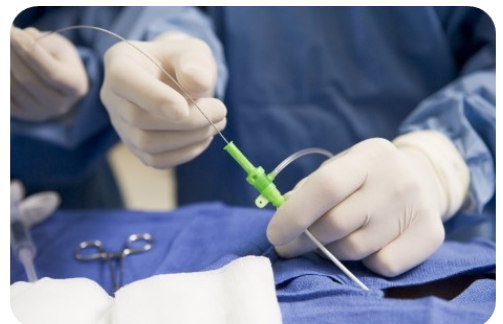


Compounding Solutions has taken a major step forward in the field of friction as it relates to medical device technology. We are very pleased to bring Mobilize to the industry! This unique and proprietary blend is an additive which our team researched and tested to provide our customers with a low cost alternative to other more traditional lubricious materials.

Mobilize provides Lubricious Solutions For:

- Ease of Device moving through Catheter tube.
- Potential removal of FEP, PTFE, HDPE liner during processing.
- Ease of entry into the body.
- Biocompatible.
- No adverse effects on bond-ability
- Radiopaque Fillers: Bismuth SubCarbonate, Bismuth OxyChloride, Barium Sulfate, Tungsten
- Custom Colored Compounds

Based on independent third party testing (See back) our Mobilize additive can achieve COF (Coefficient Of Friction) results at or near FEP with a reasonably low loading level so as not to affect the original properties of the base material to which it is being added. The additive offers significant reductions in the force required to insert or retract a device. Ease of operation equates to a better device that is more easily handled, produced, and accepted in the marketplace.



In an extrusion format, for instance, the additive allows the base material properties to largely remain and as a result the process stability is good which makes the additive a great option for any operations that can run simple single lumen tubing. The added benefits of Mobilize, above and beyond the standard base material properties, can provide a low cost solution for inner liners helping to greatly reduce the cost of a device that needs a lubricious inner surface yet does not need the full effect of a material like PTFE.

MOBILIZE

Surface Friction Management in PEBA's

Compounding Solutions' has tested the mobilize lubricious additive package in common medical catheter tubing materials such as Polyether block amides (Arkema Pebax) and Thermoplastic Polyurethanes (Lubrizol Pellethane).

Table 1 – Mobilize and Natural Resin Tubing Mechanical Properties Comparison

Test	ASTM Standard	Units	Pebax 6333 SA01 MED	Pebax 6333 SA01 MED Mobilize
Melt Flow Index	D1238	g/10min	14.4	19.6
Specific Gravity	D792	g/cc	1.02	1.02
Hardness	D2240	Shore D	62	60
Tensile Strength	D638	psi	5070	4000
Elongation, Max	D638	%	430	370
Flex Modulus	D790	kpsi	45.2	41.4
Tear Strength	D624	lbf/in	1060	1030
Peel Test	Internal Method	lbf/ft	7.43	7.6

Table 2 – Mobilize and Natural Resin Tubing Trackability

Sample Description	Max Insertion Force (N)	Average Insertion Force (N)	Max Retraction Force (N)	Average Retraction Force (N)
Pebax 6333 SA01 MED, Mobilize	0.382	0.093	-0.194	-0.142
Pebax 6333 SA01 MED, Natural	0.495	0.163	-0.319	-0.172
Pebax 6333 SA01, 20% BaSO4 & (Competitors Additive)	0.915	0.315	-0.573	-0.303
HDPE	0.740	0.325	-0.515	-0.253

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See Safety Data Sheet for Health & Safety Consideration

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