

MOBILIZE

Lubricious Compounds for Surface Friction Management

Lubricious solutions in:

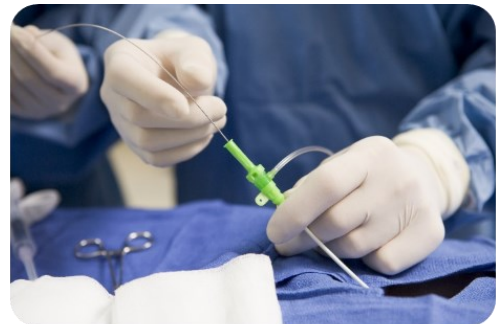
- Polyolefins
 - * LLDPE
 - * LDPE
 - * HDPE
 - * PP
- Styrenics
 - * CPS
 - * HIPS
 - * SAN
 - * ABS
- Polyester
 - * PET
 - * PBT
- Polycarbonates
- Polyamides
 - * 6
 - * 6/6
 - * 6/10
 - * 12
 - * 6/12
- Polyurethanes
- Thermoplastic Elastomers
 - * Hytrel
 - * Pebax
 - * SBCs

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.

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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).

Mechanical Properties

Test	ASTM Standard	Units	Material	
			Pebax 6333 SAO1 MED	Pebax 6333 SAO1 MED. MOBILIZE
Melt Flow Index	D1238	g/10min	14.4	19.58
Specific Gravity	D792	g/cc	1.0166	1.0243
Hardness	D2240	Shore D	62	60
Tensile Strength	D638	PSI	5070	4000
Elongation	D638	%	430	370
Flex Modulus	D790	PSI	45.2	41.4
Tear Strength	D624	lbf/in	1060	1030
Peel Test	In House*	lbf/ft	7.43	7.6

* Peel Test performed using 90deg peel sample of Test material thermally bonded with Pebax 4533 SAO1 MED

Pushability & Retractability Testing

Sample Description	Max Insertion Force (g)	Position at Max Insertion (cm)	Average Force (g)	Max Retraction Force (g)	Position at Max Retraction (cm)	Average Force (g)
Pebax 6333 SAO1 MED, Mobilize	38.9508	19.8186	9.46	-19.8127	25.3779	-0.0839
Pebax 6333 SAO1 MED Natural	50.4673	19.99	16.67	-32.5126	30.9398	-0.4268
Pebax 6333 SAO1, 20% BaSO4 & (Competitors Additive)	93.3189	19.947	32.1	-58.4196	33.0673	-0.8714
HDPE	75.46	20.3	33.19	-52.58	30.36	-25.85

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See Safety Data Sheet for Health & Safety Consideration