

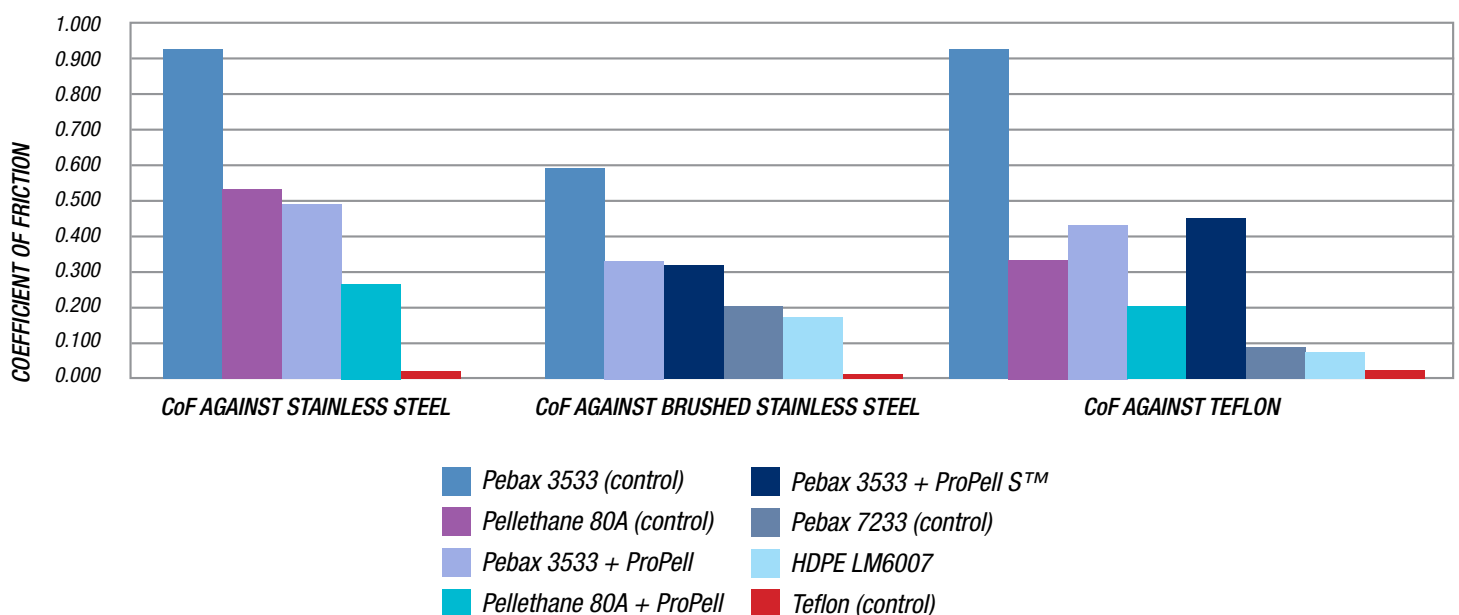


ProPell™ Low Friction Compounds

Foster ProPell™ Low Friction Compounds incorporate proprietary surface enhancing additives into a wide range of medical grade polymers to reduce inherently high coefficient of friction, while retaining desired mechanical properties. These unique compounds improve manufacturing and application performance by substantially reducing tackiness of medical device components, including catheter tubing. Foster ProPell™ Low Friction Compounds are suitable for extrusion and injection molding applications.

Due to wide variety of medical applications, and variabilities within each, Foster custom formulates ProPell based on the applications needs. These formulations can be opaque or translucent for applications where fluid visibility or color is critical. Foster also custom formulates surface modifications to account for the type of bonding or other post-processing steps that will be used. Though the formulations are custom, all components have been tested and passed so custom formulations will be biocompatible.

The tables below outline the results of a static coefficient of friction study, conducted by Foster Corporation on standard ProPell formulations. The evaluations were conducted under dry conditions, against brushed stainless steel and Teflon surfaces.



PROPELL™ COMPOUNDS

			PROPELL™ LOW FRICTION PEBAX* COMPOUNDS		PROPELL™ LOW FRICTION PELLETHANE* COMPOUNDS		PROPELL™ LOW FRICTION ISOTHANE COMPOUNDS		PROPELL™ LOW FRICTION PEBAX COMPOUNDS	
PROPERTY	TEST METHOD	UNITS	PROPELL PEBA 35D 3083652	PEBAX* 3533 (CONTROL)	PROPELL TPU 80A 0118J	PUET 80A (CONTROL)	ISOTHANE 80A (CONTROL)	PROPELL™ ISOTHANE 80A	PEBAX 3533 (CONTROL)	PROPELL™ PEBAX 3533
TENSILE STRENGTH @ BREAK	ASTM 638	PSI	5,580	5,340	7,170	5,435	3316	2702	4739	4298
TENSILE ELONGATION @ BREAK	ASTM 638	%	825	920	530	550	1840	1706	1220	1125
TENSILE MODULUS	ASTM 638	PSI	1,670	1,020	1,790	1,820	591	734	1694	1831
KINETIC COEFFICIENT OF FRICTION (STAINLESS STEEL)	ASTM D1894	–	–	–	0.262	0.507	–	–	0.83	0.52
KINETIC COEFFICIENT OF FRICTION (BRUSHED STAINLESS STEEL)	ASTM D1894	–	0.327	0.580	–	–	0.89	0.33	–	–
KINETIC COEFFICIENT OF FRICTION (TEFLON)	ASTM D1894	–	0.449	0.935	0.200	0.342	–	–	–	–
TRANSMITTANCE*	ASTM D1003	%	–	–	–	–	91	67	90	75

*Pebax is a registered trademark of Arkema, Inc. Pellethane is a registered trademark of Lubrizol Corporation. Contact Foster Corporation for information on a wider range of ProPell materials.



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