



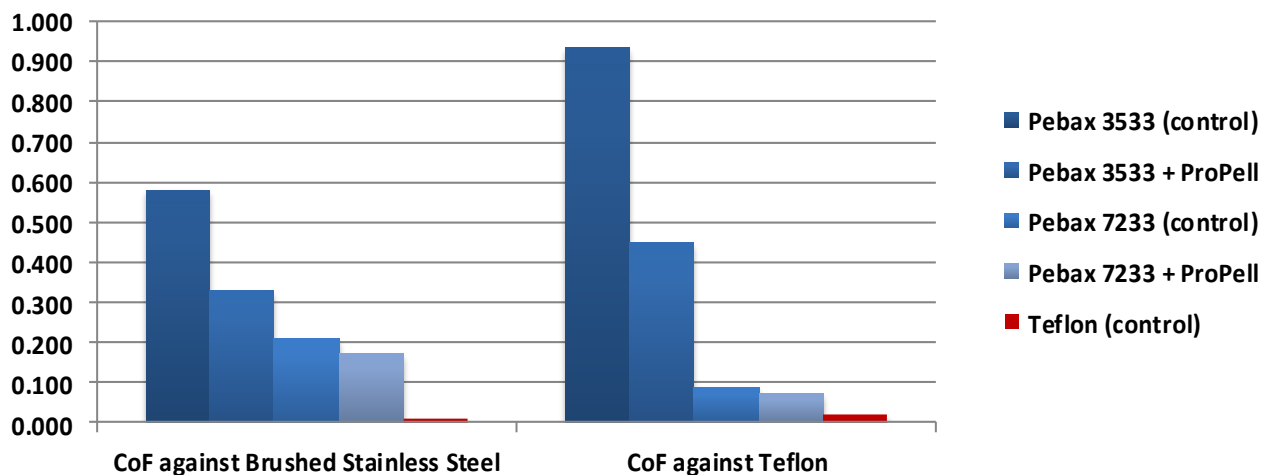
## Foster ProPell™ Low Friction Compounds

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.

The tables below outline the results of a static coefficient of friction study, conducted by Foster Corporation on **ProPell “S”** formulations. These standard formulations are PEBA and TPU based and have passed USP Class VI testing for biocompatibility. The evaluations were conducted under dry conditions, against brushed stainless steel and Teflon surfaces. *\*Please note that specific application requirements, may result in custom ProPell formulations, also known as “ProPell™ C”. These formulations have not been certified to USP Class VI testing standards. Property values, including coefficient of friction may vary by formulation.*

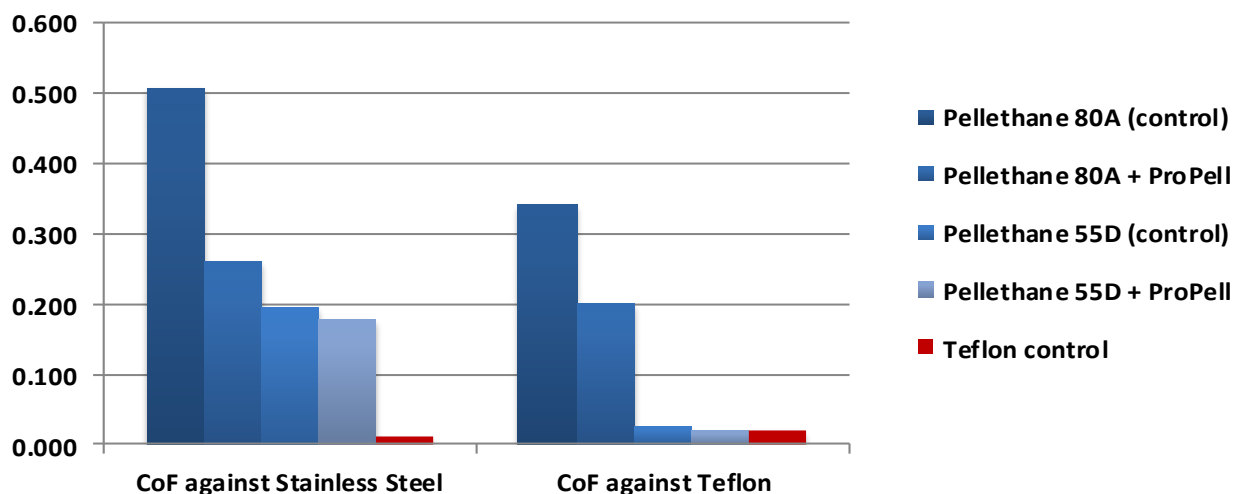
ProPell™ S - Low Friction Pebax* Compounds						
Property	Test Method	Units	ProPell PEBA 72D 3083651	Pebax* 7233 (control)	ProPell PEBA 35D 3083652	Pebax* 3533 (control)
Tensile Strength @ break	ASTM 638	psi	<b>8,640</b>	7,870	<b>5,580</b>	5,340
Tensile Elongation @ break	ASTM 638	%	<b>205</b>	215	<b>825</b>	920
Tensile Modulus	ASTM 638	psi	<b>159,670</b>	131,470	<b>1,670</b>	1,020
Kinetic Coefficient of Friction (Brushed stainless steel)	ASTM D1894	-	<b>0.173</b>	0.208	<b>0.327</b>	0.580
Kinetic Coefficient of Friction (Teflon)	ASTM D1894	-	<b>0.072</b>	0.086	<b>0.449</b>	0.935

*\*Pebax is a registered trademark of Arkema, Inc.*



ProPell™ S - Low Friction Pellethane* Compounds						
Property	Test Method	Units	ProPell TPU 55D 0118A	PUET 55D (control)	ProPell TPU 80A 0118J	PUET 80A (control)
Tensile Strength @ break	ASTM 638	psi	<b>10,940</b>	11,010	<b>7,170</b>	5,435
Tensile Elongation @ break	ASTM 638	%	<b>375</b>	420	<b>530</b>	550
Tensile Modulus	ASTM 638	psi	<b>18,500</b>	12,740	<b>1,790</b>	1,820
Kinetic Coefficient of Friction (Stainless steel)	ASTM D1894	-	<b>0.176</b>	0.507	<b>0.262</b>	0.507
Kinetic Coefficient of Friction (Teflon)	ASTM D1894	-	<b>0.019</b>	0.025	<b>0.200</b>	0.342

*\*Pellethane is a registered trademark of Lubrizol Corporation*



**Foster Corporation**  
**45 Ridge Road**  
**Putnam, CT 06260**  
**(860) 928-4102**  
[www.fostercomp.com](http://www.fostercomp.com)

Foster Corporation (Foster) believes that the information contained in this document is an accurate description of the typical characteristics and/or uses of the product or products, but it is the customer's responsibility to thoroughly test the product in each specific application to determine its performance, efficacy and safety for each end-use product, device or other application. Suggestions of uses should not be taken as inducements to infringe any particular patent. The information and data contained herein are based on information we believe reliable. Mention of a product in this documentation is not a guarantee of availability. Foster reserves the right to modify products, specifications and/or packaging as part of a continuous program of product development.

FOSTER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OF INTELLECTUAL PROPERTY NON-INFRINGEMENT, INCLUDING, BUT NOT LIMITED TO PATENT NON-INFRINGEMENT, WHICH ARE EXPRESSLY DISCLAIMED, WHETHER EXPRESS OR IMPLIED, IN FACT OR BY LAW. FURTHER, FOSTER MAKES NO WARRANTY TO YOUR CUSTOMERS OR AGENTS, AND HAS NOT AUTHORIZED ANYONE TO MAKE ANY REPRESENTATION OR WARRANTY OTHER THAN AS PROVIDED ABOVE. FOSTER SHALL IN NO EVENT BE LIABLE FOR ANY GENERAL, INDIRECT, SPECIAL, CONSEQUENTIAL, PUNITIVE, INCIDENTAL OR SIMILAR DAMAGES, INCLUDING WITHOUT LIMITATION, DAMAGES FOR HARM TO BUSINESS, LOST PROFITS OR LOST SAVINGS, EVEN IF FOSTER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, REGARDLESS OF THE FORM OF ACTION.