



Foster ProPel™ “T” Low Friction Compounds

Foster ProPel™ 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 ProPel™ 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 ProPel “T” (translucent) formulations. These formulations enhance the surface of parts while retaining levels of translucency and without altering physical properties of the polymer. These offerings expand on an already extensive list of low-friction offerings from Foster. They have passed USP Chapter 88 Class VI Biological Reactivity Tests. The evaluations were conducted under dry conditions.

***Please note that Propell “T” will be the standard formulation moving forward. Previous formulations of ProPel™ are still available . If a compound contains a radiopaque filler, it will remain opaque.*

| PROPELL™ “T” LOW FRICTION ISOTHANE*** COMPOUNDS | | | | | | | | |
|---|-------------|-------|--------------|-----------|--------------|-----------|--|-----------|
| PROPERTY | TEST METHOD | UNITS | ISOTHANE 80A | | ISOTHANE 90A | | PELLETHANE 80A + 30% BaSO ₄ | |
| | | | CONTROL | PROPELL T | CONTROL | PROPELL T | CONTROL | PROPELL T |
| TENSILE STRENGTH @ BREAK | ASTM 638 | PSI | 3316 | 2702 | 8370 | 5743 | 1857 | 1614 |
| TENSILE ELONGATION @ BREAK | ASTM 638 | % | 1840 | 1706 | 591 | 861 | 1507 | 1360 |
| TENSILE MODULUS | ASTM 638 | PSI | 591 | 734 | 2016 | 3045 | 1167 | 1264 |
| KINETIC COEFFICIENT OF FRICTION (BRUSHED STAINLESS STEEL) | ASTM D1894 | – | 0.89 | 0.33 | 0.33 | 0.08 | 0.51 | 0.21 |
| TRANSMITTANCE* | ASTM D1003 | % | 91 | 67 | 86 | 52 | N/A | N/A |

PROPELL™ T - LOW FRICTION PEBAX COMPOUNDS**

| | | | PEBAX 3533 | | PEBAX 5533 | | PEBAX 3533 + 30% BaSO ₄ | |
|---|-------------|-------|------------|-----------|------------|-----------|------------------------------------|-----------|
| PROPERTY | TEST METHOD | UNITS | CONTROL | PROPELL T | CONTROL | PROPELL T | CONTROL | PROPELL T |
| TENSILE STRENGTH @ BREAK | ASTM 638 | PSI | 4739 | 4298 | 7942 | 5562 | 3526 | 3471 |
| TENSILE ELONGATION @ BREAK | ASTM 638 | % | 1220 | 1125 | 746 | 523 | 919 | 939 |
| TENSILE MODULUS | ASTM 638 | PSI | 1694 | 1831 | 18661 | 20905 | 3174 | 2831 |
| KINETIC COEFFICIENT OF FRICTION (STAINLESS STEEL) | ASTM D1894 | - | 0.83 | 0.52 | 0.18 | 0.07 | 0.70 | 0.22 |
| TRANSMITTANCE* | - | % | 90 | 75 | 78 | 67 | N/A | N/A |

*The percentage of light that passes through a 4 mm plaque. **Pebax is a registered trademark of Arkema. ***Isothane is a registered trademark of GRECO.



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