



***NEW SYNNERGY™ LOW FRICTION COMPOUNDS REDUCE COEFFICIENT OF FRICTION
IN PEBA & TPU AND ARE CERTIFIED FOR MEDICAL DEVICE USE***

LEOMINSTER, MA (January 29, 2024) – Peak Performance Compounding (PEAK-PCI) is excited to announce its latest polymer technology – **Synnergy™** – a custom line of low-friction compounds for single and dual-layer tube extrusion, injection molding, and blow molding applications.

Synnergy™ compounds are custom-formulated using a proprietary blend of lubricious additives to significantly reduce the coefficient of friction (COF) of natural resins, including Polyether Block Amide (PEBA) and Thermoplastic Polyurethane (TPU). As a safe and durable alternative to PTFE, Synnergy™ formulations can be customized using colorants and other performance-enhancing additives for industrial and medical (Synnergy™ Rx) products, including interventional and diagnostic catheters, industrial tubing, and component parts.

In two separate studies for lubricious catheter liners conducted in November and December of 2023, Synnergy™ Rx formulations outperformed competing solutions in Polyether Block Amide compounds. Synnergy™ Rx samples were found to have 14% - 68% lower COF compared to competing samples in Pebax® 63D when pulled at varying pressures (4, 6, and 8 psi). In medical applications, specifically catheter liners, low friction is essential for interior device insertion and maneuverability. Additionally, a reduction in overall polymer friction enables enhanced processability and ease of extrusion; often reducing material scrap and improving production yields. Synnergy™ Rx formulations have passed USP Class VI testing for biocompatibility.

For more information or to discuss how PEAK-PCI can assist with your material needs, please visit us at MD&M West in Booth #1594 or email info@peak-pci.com.

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About Peak Performance Compounding

Peak Performance Compounding, LLC. is a leading custom compounder and toll processor for the plastics industry. We take an unbiased approach to compounding by processing many different grades of engineering and commodity resins, as well as medical grade polymers. Peak offers twin screw technology that allows for processing advanced materials, highly filled polymers and pre-colored precision compounds. Our quality standards have been set to the highest level and are maintained through rigorous testing of our compounded products.

Peak Performance Compounding, LLC.

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