

LubX®: Advanced Sliding Materials for Optimal Conveyor System Performance

Roechling Industrial North America supplies two advanced materials for the material handling and conveying industry: **LubX® C** and **LubX® CV**. Engineered for excellent dry-running performance and a low coefficient of friction, these materials significantly reduce energy consumption and practically eliminate slip-stick (backsliding). **LubX® C is a stock item suitable for most applications**, and **LubX® CV** is available for special high-load applications.

LubX® C:

The original high-performing material

- Outstanding dry-running properties and up to 75% lower coefficient of friction than standard UHMW-PE means less energy is needed to run conveyor systems
- Designed for increased efficiency when sliding against POM and stainless steel/steel materials
- **LubX® C** reduces noise levels in factory environments, increasing overall safety for workers
- FDA compliant for use in food grade applications
- Reduced chances of slip-stick and backsliding
- Increase process efficiency and stability



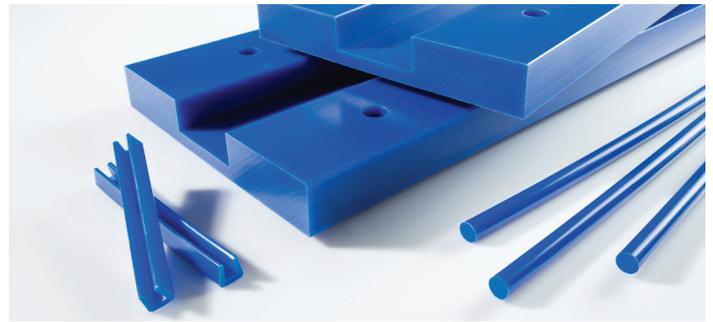
LubX® C and LubX® CV applications:

- Straight and curved chain tracks
- Gears
- Sorter push blocks
- Under-chain wear strips
- Wear strips
- Sprockets
- Rollers
- Belt guides
- Guide rails
- Lane dividers

LubX® CV:

Designed for higher speeds and productivity

- **LubX® CV** has been developed with the same excellent sliding properties as **LubX® C**, but with the added benefit of lower temperature production for use in systems operating at higher speeds and pressure loads
- Excellent dry-running properties with a significantly lower coefficient of friction than UHMW-PE
- Uses less energy in high velocity conveyor systems
- High wear resistance and shorter run-in phase for longer maintenance intervals
- Easily machinable for use in complex parts
- **LubX® CV** reduces noise levels in factory environments, increasing overall safety for workers
- FDA compliant for use in food grade applications



LubX® C and LubX® CV are available in the following:

- Extruded profiles and rods
- Sheets in thicknesses up to 4"
- Standard colors:
 - LubX® C: Blue-grey
 - LubX® CV: Blue

FRESNO

2539 S Cherry Ave.
Fresno, CA 93706
(559) 268-7321

TULARE

4500 S K St.
Tulare, CA 93274
(559) 686-1677

BAKERSFIELD

19428 Colombo St.
Bakersfield, CA 93308
(661) 392-1912

YUBA CITY

1690 Sierra Ave.
Yuba City, CA 95993
(530) 674-2444

MERCED

2280 Copper Ave.
Merced, CA 95348
(209) 722-8844

SPARKS

1095 Spice Islands Drive, #103
Sparks, NV 89431
(775) 356-0192

CARLIN

1120 Green Street
Carlin, NV 89822
(775) 778-0622

SLIGER MACHINWORKS

3620 South Bagley Ave.
Fresno, CA 93725
(559) 443-0211

LubX®: Low Friction Sliding Materials

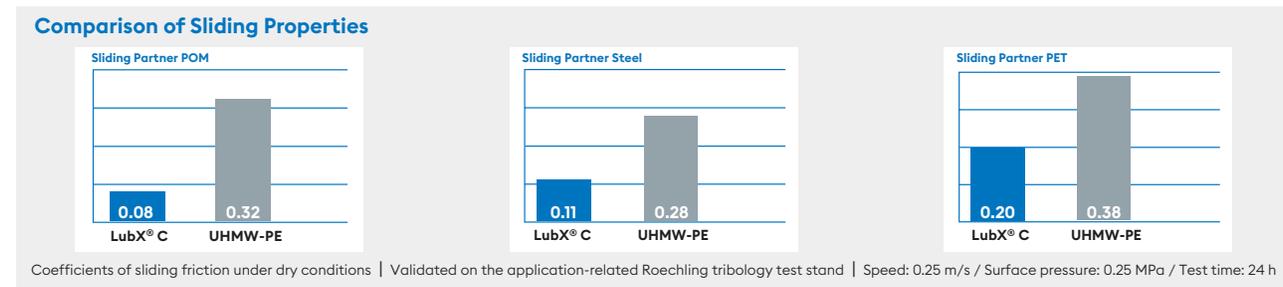
Tribological Systems

In the development of LubX® products, great care has been taken not only to minimize the coefficient of friction of the sliding materials, but also to consider the tribological system of the sliding partners in an integrated manner and especially aligned to the particular specific requirement concerned.

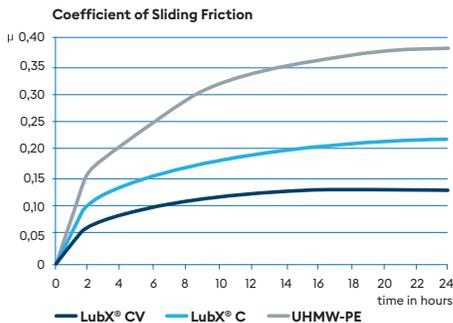
The individual motion and transport segments of different conveying systems were analyzed, and the relative movements of the elements and the friction forces arising at the points of contact examined. These frictional forces have a decisive impact on the performance of the conveying system.

Energy Efficiency

When utilizing components with optimized sliding properties in conveying processes, the conveying power required – and thus the energy applied – may be reduced to a minimum. The performance and efficiency of the plant can thus be considerably enhanced.

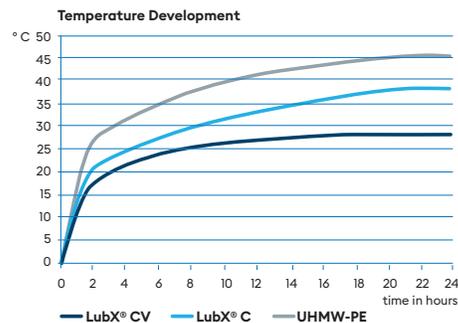


Low Coefficient of Sliding Friction



Coefficient of sliding friction under dry conditions, validated on Roechling application-level tribology test apparatus, speed: 0.5 m/s, surface pressure 0.5 MPa, test time 24 hours

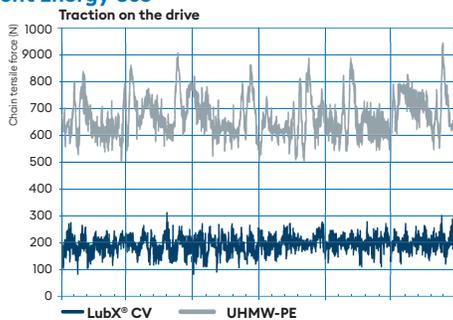
Low Temperature Development



Temperature development under dry conditions, validated on Roechling application-level tribology test apparatus, speed: 0.5 m/s, surface pressure 0.5 MPa, test time 24 hours

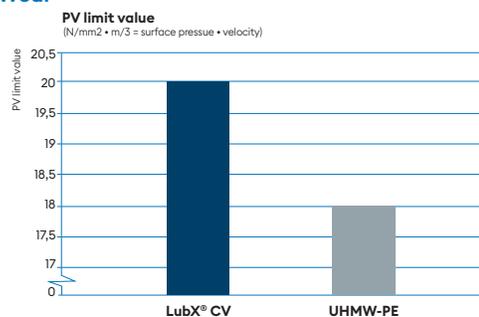
LubX® CV – For Higher Speed and Better Productivity

Efficient Energy Use



Traction on the drive during a complete chain run: Speed 0.68 m/s, Chemnitz University of Technology, Institute for Material Handling and Plastics

Less Wear



Pin-On-disc test conducted by the University of Erlangen/Institute of Polymer Engineering, steel disc: 100 Cr6, Rz 1.0 microns, surface pressure: $p = 4.0 \text{ N/mm}^2$, ambient temperature: $T_a = 23^\circ \text{C}$, ambient medium: technically dry