

# LNP™ LUBRILLOY™ COMPOUNDS

## NEXT-GEN LUBRICATED COMPOUNDS



Being a technology pioneer, SABIC first developed wear and friction solutions: **LNP LUBRILLOY compounds**.

Recent technological advancements have allowed us to expand the portfolio to include **PBT, PA66, PPA and PPS compounds as well as glass- and carbon-fiber reinforced variants**, creating the broadest portfolio on the market with alternatives for most PTFE-lubricated compounds used today.

### SEMI-CRYSTALLINE: FATIGUE AND CHEMICAL RESISTANCE

Base Resin	Grade	Description
PBT	W8000 (iQ) WF206	Base grade (incl LNP ELCRIN™ iQ variant) 30% Glass Fiber
PA66	R2000 (AXP) R2000I RF203 * RX18020 RC206	Base grade (Improved mechanical properties) High impact, abrasion resistant 15% Glass Fiber * 30% & 40% GF available 15% Glass Fiber, higher heat 30% carbon fiber
PPA	U(A)2000A UF206(A) UF20AXXP UC206(A)	Base grade (Aramid Fiber) 30 % Glass Fiber (lower Tg higher Tm) 50 % Glass Fiber, lower Tg higher Tm 30 % Carbon Fiber (lower Tg higher Tm)
PPS	OF206 OC206	30 % Glass Fiber 30 % Carbon Fiber
POM	K2000(XXH) K8000XXL	Base grade (Healthcare grade) Food contact

### AMORPHOUS: DIMENSIONAL STABILITY AND TIGHT TOLERANCE

Base Resin	Grade	Description
PC	D2000(AXH /I) DF204(6HH)	Base grade (Healthcare grade / High impact) 20% Glass fiber (30% Glass fiber, healthcare)
PC/ABS	N2000	Base grade (Automotive BSR)
PPE	Z2000(1)	Base grade (UL-V0, ECO-FR)

### LNP LUBRILLOY LUBRICATED COMPOUNDS FEATURE:

- Non-halogenated lubrication
- Lower density and improved impact vs. PTFE filled materials
- Excellent surface finish and colorability
- Competitive performance to traditional PTFE lubrication

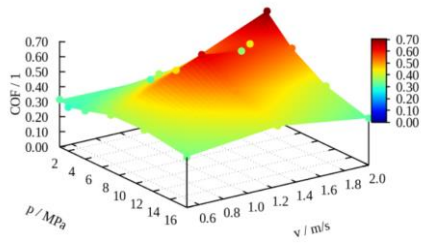


# LNPT<sup>TM</sup> LUBRILLOY<sup>TM</sup> COMPOUNDS: NEXT-GEN LUBRICATED COMPOUNDS

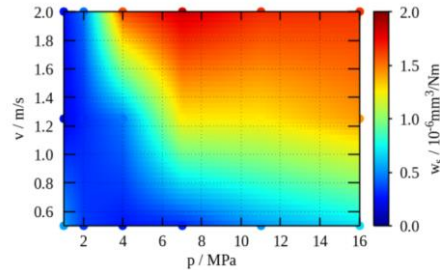
The new grades of LUBRILLOY compounds offer similar or superior wear performance vs PTFE lubricated alternatives over a wider range of PV\*

## LNP LUBRICOMP UCL36ASP Compound

FRICITION

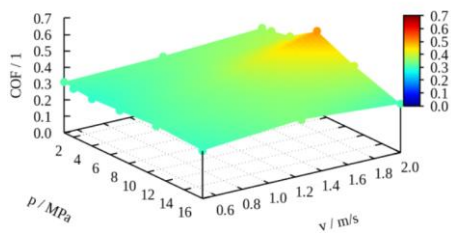


WEAR

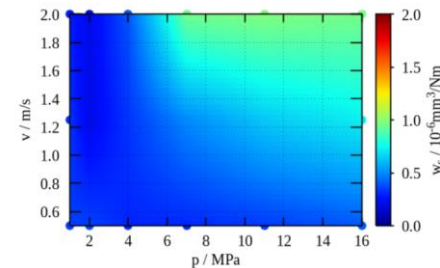


## LNP LUBRILLOY UC206A Compound

FRICITION



WEAR



Wear and friction performance of the new LNP LUBRILLOY compounds is similar or better when compared vs. PTFE lubricated alternative\*. **Similar engineering data, simulation and engineering support can be provided upon request.**

\* vs PTFE based reference materials and tested under dry sliding block on ring (100Cr6, Ra = 0.189 μm),  
Ws – specific wear rate (10<sup>-6</sup> mm<sup>3</sup>/Nm) with velocity (V) in m/s and pressure (P) in MPa

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LNP RESINS  
& COMPOUNDS

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