

# NON-PTFE SOLUTIONS WEAR AND FRICTION

## LNP™ LUBRILLOY™ Compounds



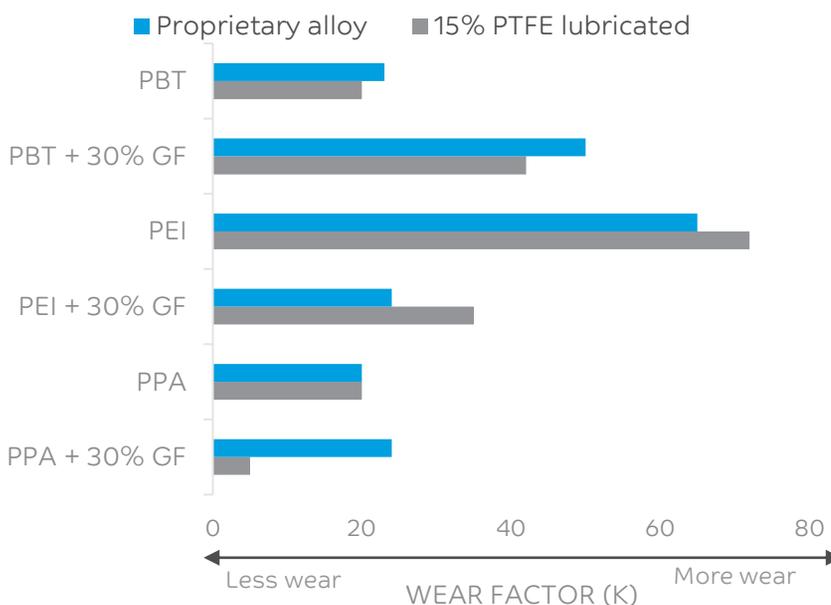
Recently introduced technology has expanded the portfolio to include lubricated compounds in PBT and PPA.

This patented technology offers wear and friction performance similar to PTFE-lubricated grades without the use of intentionally added PFAS containing materials.

The LNP LUBRICOMP™ compounds were among the earliest to offer wear and friction performance in a fully compounded, internally lubricated thermoplastic. In 1994, SABIC introduced the first in a series of LNP LUBRILLOY products, a newly patented lubricant technology. This unique technology offered cost effective wear and friction performance using a proprietary alloy. SABIC expanded this technology to commonly-used resins such as polycarbonate, nylon, acetal, and PPE. Recently introduced technology has again expanded the portfolio to include lubricated compounds in PBT and PPA, with other high temperature resins on the horizon.

### LNP LUBRILLOY LUBRICATED COMPOUNDS FEATURE:

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



RESIN	LUBRILOY GRADE	DESCRIPTION	POTENTIAL APPLICATIONS
PA 6/6	R2000	Base grade	Gears Bushings and bearings Sliders and actuators
	R2000AXP	Improved mechanical properties	
	R2000I	High impact, abrasion resistant	
	RF206	30% glass fiber	
PC <sup>a</sup>	D2000	Base grade	Drug delivery pens and pumps Laparoscopic surgical tools Consumer electronics chassis Consumer electronics housings and chassis
	D2000AXH	Healthcare grade	
	D2000I	High impact	
	DF204	20% glass fiber	
	DF206XXH	30% glass fiber healthcare grade	
PC/ABS	N2000	Base grade	Automotive interiors: buzz, squeak, rattle (BSR) prevention applications
PBT <sup>b</sup>	W8000*	Base grade	Automotive, Industrial, Appliance: gears, sliders, bearings, bushings
	WF806*	30% glass fiber	
PPA	U2000A	Base grade	Automotive under-the-hood
	UF206*	30% glass fiber	Industrial: gears, sliders, bearings, bushings
PPE	Z2000	Base grade	Lightweight, low water absorption materials
	Z20001	UL94-V0, ECO-FR	
POM	K2000	Base grade	Gears
	K2000XXH	Healthcare grade	Bushing, bearings and sliders
	K8000XXL	New Lubricated food contact	Conveyor parts

\* DEVELOPMENTAL GRADES

a - some products can be formulated with bio-sourced materials

b - can be formulated with chemically upcycled LNP ELCRIN™ iQ PBT

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