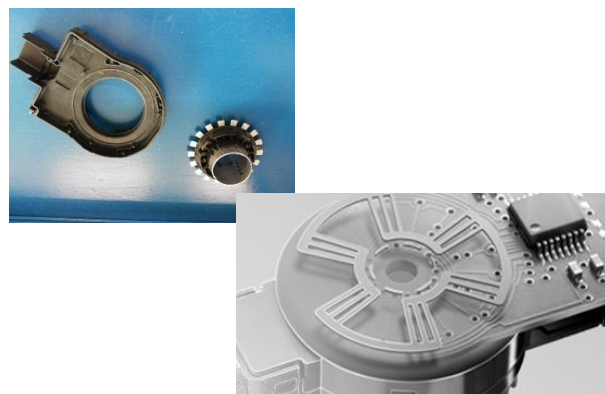


## LUBRICOMP™ COMPOUNDS FOR MECHATRONICS

LUBRICOMP RAL23 is an Aramid filled, PTFE lubricated PA66 compound developed for gear, bearing- and slider-applications as used for mechatronics engineering. This grade can offer a plastic-plastic, lowest slip-stick solution with increased reliability and improved transmission efficiency, whilst helping to improve the noise ergonomics in abrasive wear modes.



### EFFECTS



#### WEAR & FRICTION

### TYPICAL INDUSTRY REQUIREMENTS:

- Transmission efficiency
- No noise
- Good tribological performance when combined with glass fiber reinforced systems, used for structural performance
- Avoidance grease at sub- zero temperatures

### LUBRICOMP RAL23 KEY PROPERTIES:

### APPLICATION SEGMENT

#### MECHATRONICS

sensors; sliders and actuators; gear transmissions clutch systems; bearings.

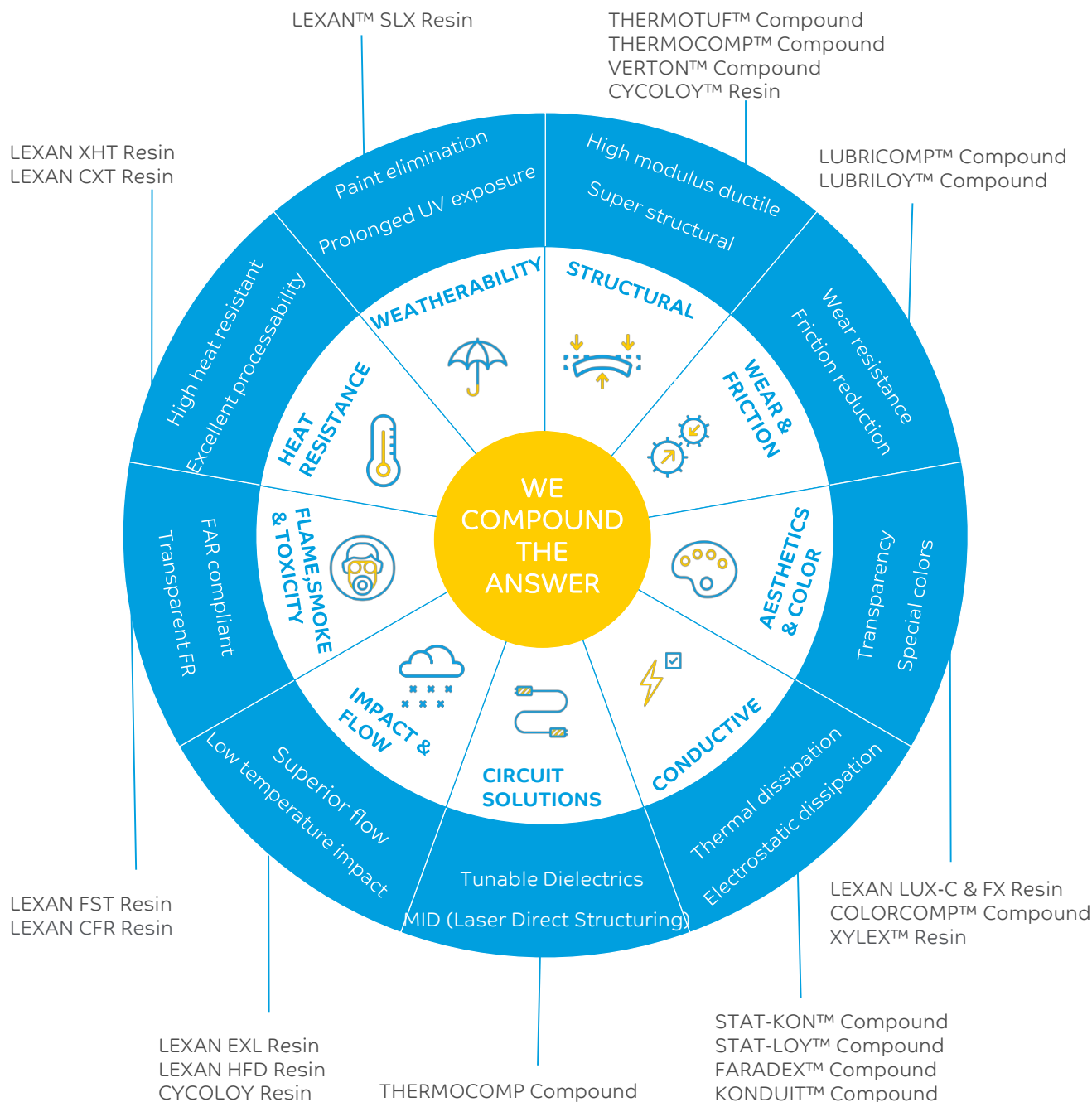
### LUBRICOMP RAL23 TYPICAL PROPERTIES:

- Optimum plastic- plastic stick-slip performance
- Vibration dampening characteristics
- Abrasive wear resistance

PROPERTY	TYPICAL VALUE	UNIT
Thrust washer Wear factor		
-Moving RAL23	6	$10^{-10}$ . in <sup>5</sup>
-Stationary PA/Glass fiber/mineral	13	.min/ft.lb.hr
Thrust washer Coefficient of friction/dynamic	0.16	-
HDT/Af, 1.8 MPa Flatwise 80*10*4 span=64mm	160	°C
Tensile Strain, break, 5 mm/min	6.3	%
Flexural Stress, yield, 2 mm/min	107	MPa
Density	1.23	g/cm <sup>3</sup>

# SPECIALTY COMPOUNDS & LEXAN™ COPOLYMER RESINS

Over 50 years of innovation in thermoplastic compounding enables SABIC's specialty compounds to offer extensive materials with a broad portfolio.



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