

LNP™ COMPOUNDS & COPOLYMERS POTENTIAL ALTERNATIVES FOR PA66 COMPOUNDS

LNP™ compounds & copolymers portfolio contains a diverse range of materials that can address the need for polyamide 66 alternatives. These alternative compounds can combine different resins (PA 6 and PBT) with several levels of fillers to obtain a wide variety of final effects and may help provide better support for application needs.


TYPICAL PROPERTIES COMPARISON: ALTERNATIVE COMPOUNDS VERSUS PA66 CORRESPONDING COMPOUNDS


Properties	VALOX™ ENH RESINS (PBT/GF)	LUBRICOMP™ COMPOUNDS (PA6/GF)*	THERMOCOMP™ COMPOUNDS (PA6/GF)*	VERTON™ COMPOUNDS (PA6/LGF)*
Processing	⊖	⊕	⊕	⊕
Impact	⊖	⊕	⊕	⊕
Static strength (as f(T))	⊖	⊖	⊖	⊖
Modulus	⊕	⊖	⊖	⊖
Fatigue	⊖	⊖	⊖	⊖
Moisture uptake (dimensions)	⊕	⊖	⊖	⊖
Shrinkage (Warpage)	⊕	⊖	⊖	⊖
Temperature resistance	⊖	⊖	⊖	⊖
Chemical resistance	⊖	⊖	⊖	⊖
Aesthetics	⊖	⊕	⊕	⊕


= equal performance to PA66; + better performance; - lower performance. *PBT based solutions available

EFFECTS OF PA66 ALTERNATIVE COMPOUNDS


VALOX ENH RESINS


 Non-chlorinated non-brominated flame retardant


 Weatherability

 Electrical Properties

LUBRICOMP COMPOUNDS

 Wear & Friction

 Noise reduction


 Durability


THERMOCOMP COMPOUNDS


 Structural


 Dimensional accuracy

VERTON COMPOUNDS

 Structural

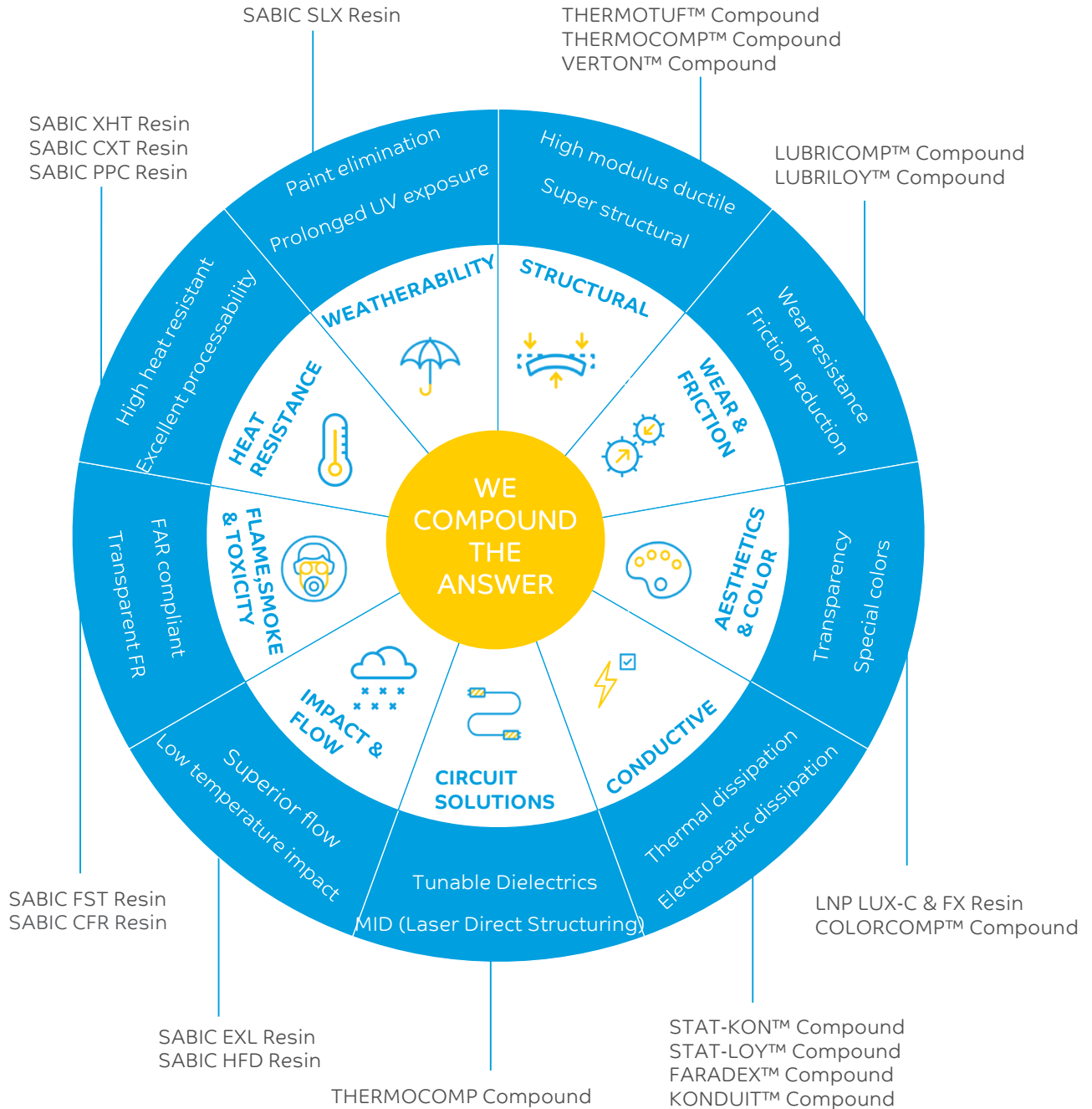
 High modulus & Ductile

 Fatigue & creep resistance

 General reinforcements

LNP™ COMPOUNDS & COPOLYMER RESINS

Over 70 years of innovation in thermoplastic compounding enables SABIC's specialty compounds to offer extensive materials with a broad portfolio.



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