

MATERIAL SOLUTIONS FOR ATEX APPLICATIONS

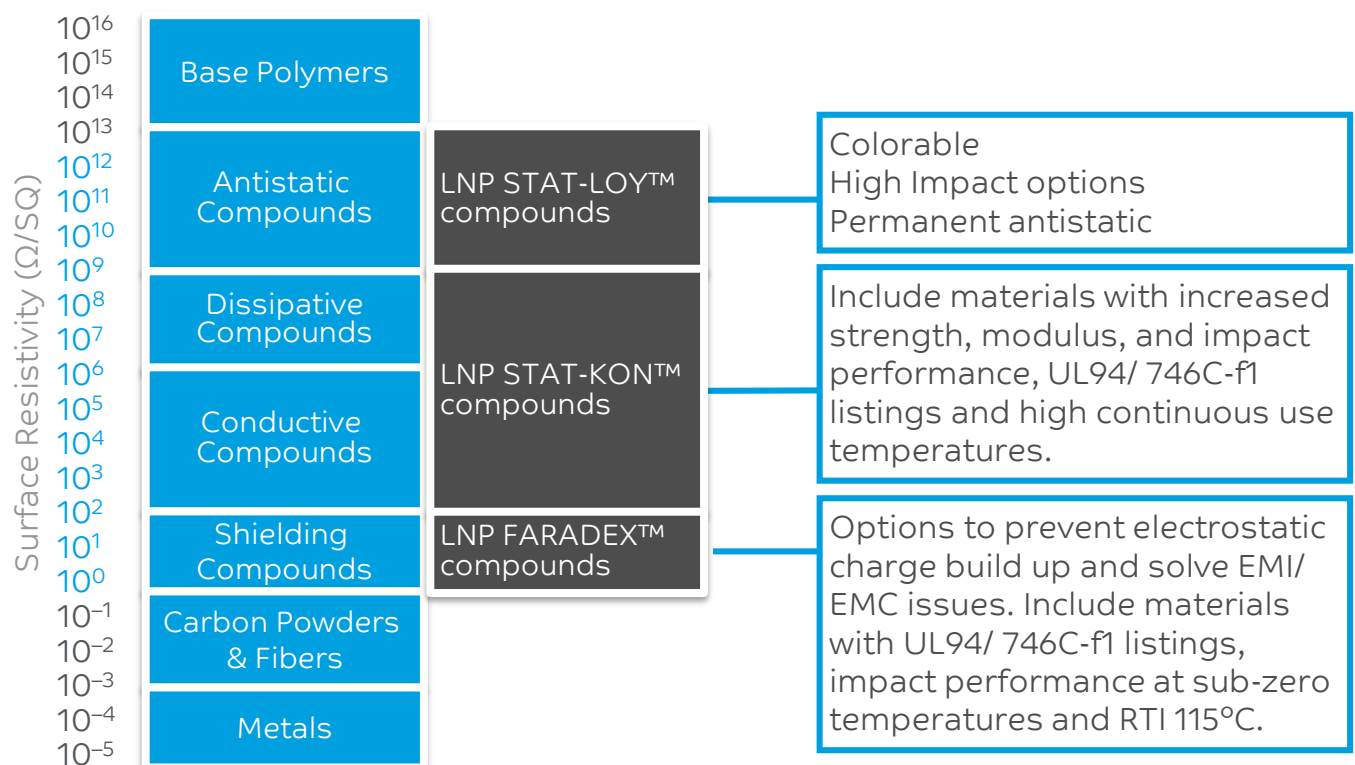
LNP™ compounds portfolio contains thermoplastic injection molding materials that can comply with regulations (ATEX 114 (2014/34/EU) directive and IEC 60079-0 standard) for equipment and protective systems that may be used in potentially explosive atmospheres. (ATEX French for Atmosphère Explosible). LNP compounds contain a diverse range of electrical conductive materials, some of which can also be used to shield against electromagnetic interference.



TYPICAL MATERIAL REQUIREMENTS:

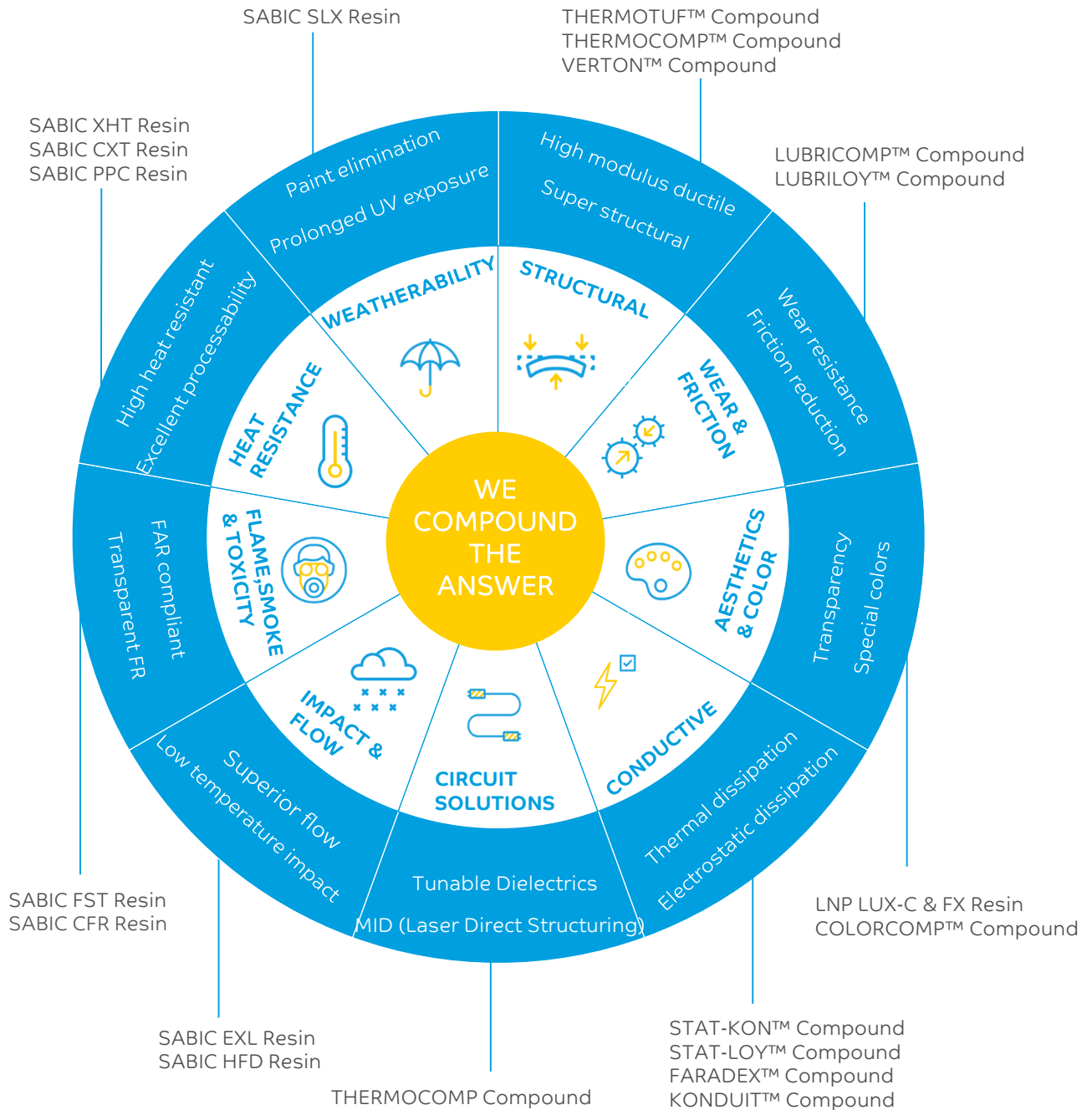
- **Electrical conductivity:** avoidance of a build-up of electrostatic charge (ASTM D257) (maximum $10^9 \Omega$ measured at $(50 \pm 5) \%$ relative humidity or $10^{11} \Omega$ measured at $(30 \pm 5) \%$ relative humidity)
- **Impact resistance at low temperatures** (5-10 K lower than the minimum service temperature)
- **Temperature endurance** (Temperature index or the Relative Thermal Index mechanical 20 K higher than the maximum service temperature)
- **Resistance to UV light** (Ultraviolet light exposure listing (f1) in ANSI/UL 746C)

LNP CONDUCTIVE COMPOUNDS FOR ATEX APPLICATIONS:



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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