

# Automotive

The demand for materials that provide lightweight, lower cost and superior performance has never been greater in the automotive industry. Thanks to their unrivalled combination of properties, Syensqo's Xencor™ LFT compounds are perfectly designed to replace die-cast aluminum and other metals in structural parts and challenging technical components, where high stability, strength and corrosion resistance are key to safe and efficient performance.

Syensqo's Xencor™ LFT portfolio includes polyamide 66 (PA66), high-performance polyamide (HPPA), polyphthalamide (PPA), polyarylamide (PARA) and polyphenylene sulfide (PPS). This broad high-performance portfolio allows us to answer a wide variety of new Automotive challenges by combining the unique advantages of LFTs with the intrinsic properties of Syensqo's specialty resins to withstand high temperatures, humidity and exposure to aggressive chemicals. Syensqo's Xencor™ LFT compounds are key contributors to lightweighting solutions, helping OEMs design conventional, hybrid and electrical vehicles that reduce fuel consumption, improve safety and deliver energy efficiency. Typical applications can be found in advanced structures (chassis pillars, CCB components, roof struts, seats), powertrain ( housings, brackets), electrification (battery pack cases, supports, charge guns), thermal management (pump housings, modules), etc.

Syensqo Specialty Polymers also offers a family of wear-resistant LFT compounds sold under the Tribocomp® tradename that provide select combinations of mechanical and tribological properties, making them an efficient alternative to metal, even when lubrication is marginal or non-existent. Typical applications are gears, actuators, etc.

In order to ensure our customers receive adequate support and guidance, we have developed reliable simulation capabilities for Xencor™ LFT & Tribocomp® LFT product lines that are of prime importance for the design of new plastic parts.