

Chain Tensioner (Schaeffler / Ford)

Application Solutions

Industry: Automotive, Powertrain/Engine

Material: Stanyl® TW341 - PA46



Description

Looking to replace metal, consolidate parts, and reduce system costs in their chain tensioner Schaeffler turned to Stanyl **TW341** from DSM Engineering Plastics. The chain tensioner is used in high volume engines that are supplied to Ford Motor Co. Throughout the evolution of the powertrain, Stanyl has been and remains the best material for tensioners.

Stanyl offers better wear performance than high molecular weight PA66, provides the highest safety and durability factors, and allows for the reduction of noise generated by the chain. In addition, it has the best fatigue and creep resistance at temperatures and better fatigue resistance than PA66. Stanyl is an extremely high performance material delivering excellent wear and friction properties, high stiffness at elevated temperatures, high fatigue resistance, low creep behavior, and retention of properties after oil aging.

DSM provided structural analysis on the tensioner for Schaeffler as well as technical and design support to help successfully replace metal and optimize the design. DSM has the application experience and tools to help optimize designs for tight spaces. Application and design engineers take the time to understand the system, know what is important, and how this affects the loading and performance of the structural parts.

Processing Technology	Injection Molding
OEM	Schaeffler

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