

# Steering boots made with Santoprene TPVs

Improving performance while reducing costs

For many years now, in every part of the world, rack and pinion steering boots made from Santoprene™ thermoplastic vulcanizates (TPVs) have been meeting the challenge from the road below and the environment beyond in under-chassis applications. Steering boots must withstand chemical and physical attack and extremes of temperature while maintaining excellent sealing performance.

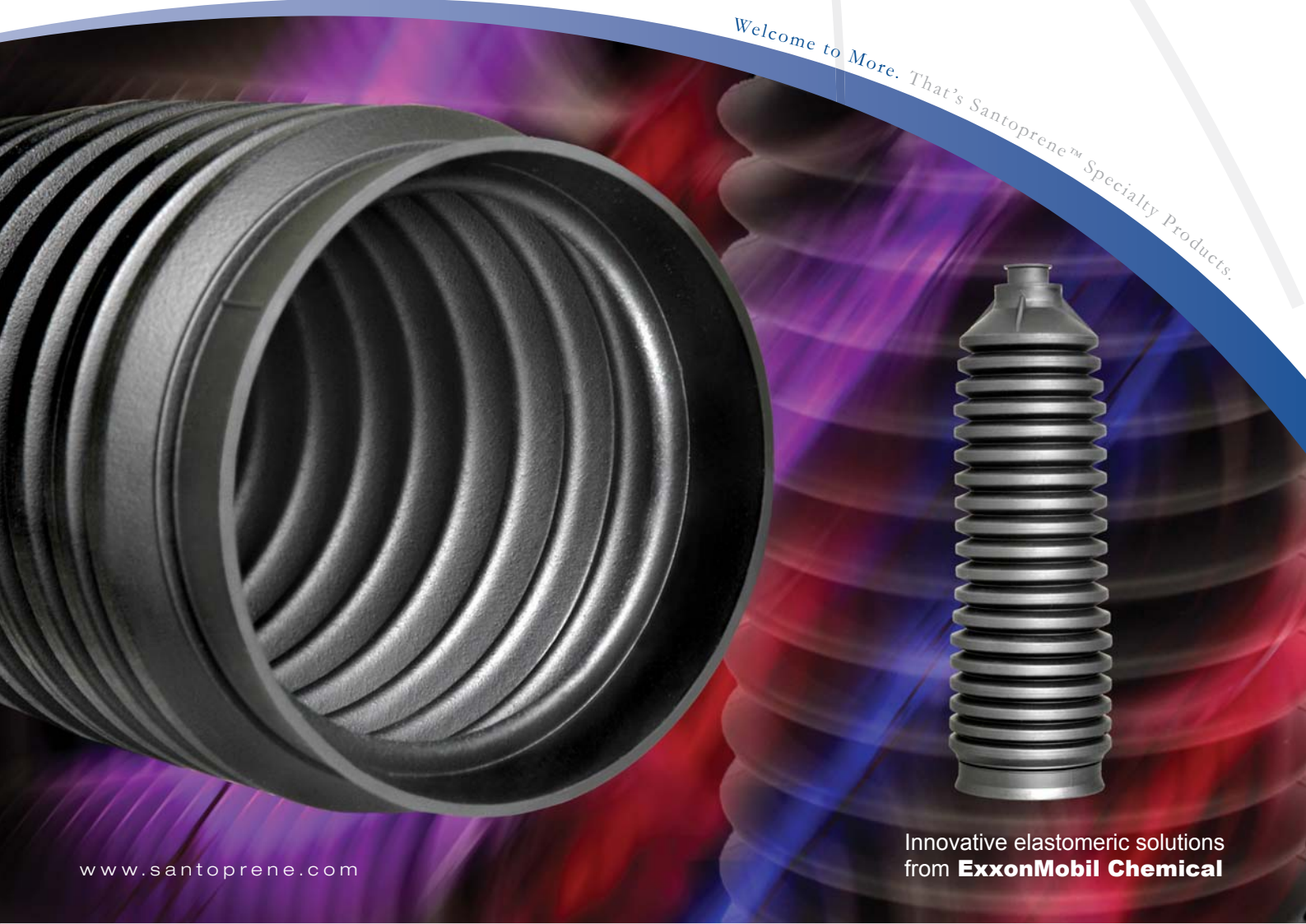
Steering boot manufacturers are using recyclable Santoprene TPVs to reduce part weight, improve part performance and provide protection against the weather, oil, road salt, debris, and other harsh elements

in this demanding environment. The majority of automobiles use Santoprene TPVs for their flexibility and resistance to heat and oil. Santoprene TPVs have demonstrated long-term durability in steering boots since 1983. And, while rack and pinion steering boots represent only a small percentage of the total cost of the steering system to manufacture, a reduction in costs is a welcome bonus.



Santoprene TPVs are used in the PRESSBLOWER process from Ossberger GmbH + Co.\*

Welcome to More. That's Santoprene™ Specialty Products.



Used by most major steering boot manufacturers in Europe, the Americas, and Asia, the PRESSBLOWER process uses Santoprene TPVs to create bellows with:

- ▶ Very low weight
- ▶ Very tight dimensional tolerances
- ▶ Improved sealability
- ▶ Enhanced flex life
- ▶ Improved fluid resistance
- ▶ Minimal or no snaking issues
- ▶ Minimal flash

## Ease of processing

One of the key benefits of Santoprene™ TPVs is ease of processing.

Santoprene TPVs combine properties similar to that of conventional thermoset rubber with the processing speed, efficiency and economy of a thermoplastic. Santoprene TPVs can be vacuum corrugated, extrusion blow molded, and injection blow molded.

Santoprene TPVs are the material of choice for use in the patented PRESSBLOWER injection blow molding process by Ossberger.

Manufacturing parts with tighter tolerances, the PRESSBLOWER process produces very high quality finished products compared with extrusion blow molding. This is a critical factor in the sealing area of rack and pinion boots.

## Unparalleled experience

With 25 years of experience in providing elastomeric solutions to the global automotive industry, and as an acknowledged TPV leader in rack and pinion steering boots, we offer unparalleled technical support and global supply chain knowledge.

So, wherever you operate in the world, we have the experience and expertise to help you be successful.

If you're faced with the challenge of developing innovative under-chassis sealing systems which improve performance while reducing costs, please contact us.



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"PRESSBLOWER manufacturing process photo courtesy of Ossberger GmbH. For more information, and to watch a video of the PRESSBLOWER process, please visit <http://www.ossberger.de/index.php?sprache=en&fid=3>

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