

# Santoprene™ 123-52W242

## Thermoplastic Vulcanizate

### Product Description

A hard, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material has low friction resistance and is especially designed for slip-coating materials in weatherseal applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and recyclable within the manufacturing stream.

### Key Features

- Designed for applications requiring excellent wear resistance, excellent weather resistance or part surface with low friction factor.
- Co-extrudable with other olefin thermoplastic rubbers.
- Designed for excellent surface smoothness and flexibility as slip-coating material.

### General

|                           |                                                                                                  |                                                                                 |                                                                               |
|---------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul> | <ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul> | <ul style="list-style-type: none"> <li>North America</li> </ul>               |
| Applications              | <ul style="list-style-type: none"> <li>Automotive - Seals and Gaskets</li> </ul>                 | <ul style="list-style-type: none"> <li>Automotive - Weather Seals</li> </ul>    | <ul style="list-style-type: none"> <li>Pipe Seals - Non Automotive</li> </ul> |
| Uses                      | <ul style="list-style-type: none"> <li>Automotive Applications</li> </ul>                        | <ul style="list-style-type: none"> <li>Automotive Exterior Trim</li> </ul>      | <ul style="list-style-type: none"> <li>Outdoor Applications</li> </ul>        |
| RoHS Compliance           | <ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>                                 |                                                                                 |                                                                               |
| Color                     | <ul style="list-style-type: none"> <li>Black</li> </ul>                                          |                                                                                 |                                                                               |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>                                        |                                                                                 |                                                                               |
| Processing Method         | <ul style="list-style-type: none"> <li>Coextrusion</li> </ul>                                    |                                                                                 |                                                                               |
| Revision Date             | <ul style="list-style-type: none"> <li>06/20/2014</li> </ul>                                     |                                                                                 |                                                                               |

### Physical

|                            | Typical Value (English) | Typical Value (SI)      | Test Based On |
|----------------------------|-------------------------|-------------------------|---------------|
| Density / Specific Gravity | 0.950                   | 0.950                   | ASTM D792     |
| Density                    | 0.950 g/cm <sup>3</sup> | 0.950 g/cm <sup>3</sup> | ISO 1183      |

### Hardness

|                              | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Shore Hardness               |                         |                    | ISO 868       |
| Shore D, 15 sec, 73°F (23°C) | 52                      | 52                 |               |

### Extrusion Notes

Santoprene™ TPV is incompatible with acetal and PVC. For more information regarding processing and die design, please consult our Extrusion Molding Guide.

### Additional Information

Where applicable, test results based on fan gated, injection molded plaques.

Tensile strength, elongation and tensile stress are measured across the flow direction - ISO type 1, ASTM die C.

All products purchased directly from an ExxonMobil affiliate in Europe are REACH compliant. For products not imported into Europe by ExxonMobil, customers should assess their legal responsibilities under REACH.

### Legal Statement

For detailed Product Stewardship information, please contact Customer Service.

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use. For detailed Product Stewardship information, please contact Customer Service.

### Processing Statement

Desiccant drying for 4 hours at 65°C (150°F) is recommended. Santoprene TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatible with acetal and PVC. For more information, please consult our Safety Data Sheet and Extrusion Guide.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.



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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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