

# SANTOPRENE® 201-67W171

A soft, colorable thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated for low density foamed profile extrusion applications and has long term sealability, low temperature flexibility and heat weldability. This grade of Santoprene™ TPV is shear-dependent and is designed to be processed using specially adapted physical foam extrusion lines. It is polyolefin based and recyclable within the manufacturing stream.

## Key Features

- Can be foamed using water as the physical blowing agent or specific chemical blowing agents.
- Recommended for applications requiring excellent ozone resistance.

## Typical mechanical properties

|                           |         |                        |
|---------------------------|---------|------------------------|
| Stress at 100% elongation | 2.8 MPa | ISO 527-1/-2 or ISO 37 |
| Stress at break           | 6.9 MPa | ISO 527-1/-2 or ISO 37 |
| Elongation at break       | 450 %   | ISO 527-1/-2 or ISO 37 |
| Shore A hardness, 15s     | 71      | ISO 48-4 / ISO 868     |

## Other properties

|         |                       |          |
|---------|-----------------------|----------|
| Density | 960 kg/m <sup>3</sup> | ISO 1183 |
|---------|-----------------------|----------|

## Processing Texts

|                  |   |
|------------------|---|
| Processing Notes | Desiccant drying for 3 hours at 80 °C (180 °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 physical foaming, a specially modified thermoplastic extruder equipped with an adapted foaming agent dosing device is required. For mechanical foaming, a 30:1 extruder is recommended. |
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