

# SANTOPRENE® 241-73W236

A soft, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in plumbing applications in contact with potable water. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion, blow molding, thermoforming or vacuum forming. It is polyolefin based and recyclable within the manufacturing stream.

## Key Features

- Certified by NSF to NSF/ANSI Standard 61: Drinking Water System Components - Health Effects.
- Contains a stabilization system for protection against copper and other metal-catalyzed degradation.

## Typical mechanical properties

Stress at 100% elongation	3.6 MPa	ISO 527-1/-2 or ISO 37
Stress at break	8.8 MPa	ISO 527-1/-2 or ISO 37
Elongation at break	490 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	79	ISO 48-4 / ISO 868
Compression set at 23°C	25 %	ISO 815

## Other properties

Density	970 kg/m <sup>3</sup>	ISO 1183
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## Injection

Drying Temperature	82 °C
Drying Time, Dehumidified Dryer	3 h
Processing Moisture Content	0.08 %
Max. regrind level	20 %
Max. mould temperature	10 - 52 °C
Vent depth	25 µm
Back pressure	0.345 - 0.689 MPa
Injection speed	fast

## Extrusion

Drying Temperature	82 °C
Drying Time, Dehumidified Dryer	3 h
Melt Temperature Range	202 °C

## 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.
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Page: 2 of 2

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