

# SANTOPRENE® 241-80W236

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	4.4 MPa	ISO 527-1/-2 or ISO 37
Stress at break	11 MPa	ISO 527-1/-2 or ISO 37
Elongation at break	560 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	87	ISO 48-4 / ISO 868

## Other properties

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

## 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 Bange	202 °C

### **Processing Texts**

**Processing Notes** 

Desiccant drying for 3 hours at  $80\,^{\circ}$ C ( $180\,^{\circ}$ F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230 $\,^{\circ}$ C (350 to  $450\,^{\circ}$ F) and is incompatible with acetal and PVC.

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