

## SANTOPRENE® 251-85W232

A hard, colorable, flame retardant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material has good fluid resistance and contains non-ether brominated flame retardants. It does not contain metal deactivators. 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**

• UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component; file #QMTT2.E86313, Polymeric Materials for Use in Wire, Cable and Flexible Lighting Products - Component.

- · Recommended for applications requiring a flame retardant material UL 94 Vertical Flame rated.
- · Recommended for applications requiring excellent flex fatigue resistance.
- · Recommended for applications requiring excellent ozone resistance.

## Typical mechanical properties

Stress at break 10.6	MPa MPa %	ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868
Flammability		
Burning Behav. at thickness h V-2	class	UL 94
Thickness tested 0.75	mm	UL 94
UL recognition yes		UL 94
Other properties		
Density 1150	kg/m³	ISO 1183
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°C (350 to  $450^{\circ}$ F) and is incompatible with acetal and PVC.

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Page: 1 of 1

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