

# SANTOPRENE® 201-73

A soft, colorable, versatile thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of applications. 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.
- Recommended for applications requiring excellent flex fatigue resistance.
- Excellent ozone resistance.

## 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
Brittleness temperature	-60 °C	ISO 974
Brittleness Temperature	-60 °C	ASTM D 746
Shore A hardness, 15s	78	ISO 48-4 / ISO 868
Compression set at 70 °C, 24h	28 %	ISO 815
Tear strength, normal	29 kN/m	ISO 34-1

## Thermal properties

RTI, electrical, 1.5mm	100 °C	UL 746B
RTI, strength, 1.5mm	90 °C	UL 746B
RTI, strength, 3mm	95 °C	UL 746B

## Flammability

Hot Wire Ignition, 1.5mm	PLC 3 s	UL 746A
Hot Wire Ignition, 3mm	PLC 3 s	UL 746A

## Electrical properties

Comparative tracking index	PLC 0 PLC	UL 746A
High Voltage Arc Tracking Rate	PLC 1 mm/min	UL 746A

## 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. mould temperature	10 - 52 °C
Injection speed	fast

## Characteristics

Electrical / Electronic	RoHS / UL QMFZ2, Canada UL QMFZ8
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## 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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## Other Approvals

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OEM	Specification	Additional Information
Stellantis - Chrysler		MS-AR-100 CGN
Ford	WSD-M2D380-A1	
MAN	M3236 A7	
VW Group	VW50123	