

SANTOPRENE® 201-87

A hard, 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

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Stress at 100% elongation	7.1	MPa	ISO 527-1/-2 or ISO 37
Stress at break	15	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	580	%	ISO 527-1/-2 or ISO 37
Brittleness temperature	-54	°C	ISO 974
Brittleness Temperature	-54	°C	ASTM D 746
Shore A hardness, 15s	93		ISO 48-4 / ISO 868
Shore A hardness change, after ageing	2		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	36	%	ISO 815
Compression Set, 125°C, 70h	44	, -	ISO 815
Tear strength, normal	48	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
Specific Application Suitability			
Detergent resistance	f3		UL 749
Detergent resistance	f4		UL 2157
Flammability			
Burning Behav. at thickness h	НВ	class	UL 94
Thickness tested	3	mm	UL 94
UL recognition	yes		UL 94
Hot Wire Ignition, 1mm	PLC 4	S	UL 746A
Hot Wire Ignition, 1.5mm	PLC 3	S	UL 746A
Hot Wire Ignition, 3mm	PLC 2	S	UL 746A

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Electrical properties

Comparative tracking index	PLC 0 PLC	UL 746A
Arc Resistance Performance Level Category	PLC 5 class	UL 746B
Electric Strength, Short Time, 2mm	32 kV/mm	ASTM D 149
High Amperage Arc Ignition Category, 1.5 mm	PLC 0 class	UL 746A
High Voltage Arc Tracking Rate	PLC 1 mm/min	UL 746A

Other properties

Density	960 kg/m ³	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	204 °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.

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Stellantis - Chrysler	MS-AR-100 EGN	
Ford	WSD-M2D382-A1	
Mercedes-Benz Group (Daimler)	DBL 5562	

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