

SANTOPRENE® 201-64

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 SantopreneTM TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion or blow molding. 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	2.6	MPa	ISO 527-1/-2 or ISO 37
Stress at break	7	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	450	%	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-60	°C	ASTM D 746
Low temperature brittleness	-60	°C	ISO 812
Shore A hardness, 15s	69		ISO 48-4 / ISO 868
Shore A hardness change, after ageing	2		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	18	%	ISO 815
Compression Set, 125°C, 70h	44	%	ISO 815
Tear strength, normal	22	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	HB	class	UL 94
Thickness tested	3	mm	UL 94
UL recognition	yes	• • • • •	UL 94
Hot Wire Ignition, 1.5mm	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 6 class	UL 746B
Electric Strength, Short Time, 2mm	30 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	970 k	kg/m ³ ISO 1	183
	0,01	(g/	

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	196 °C

Processing Texts

Processing Notes

Desiccant drying for 3 hours at 80° C (180° F) is recommended. SantopreneTM 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 BGN	
Stellantis - FCA Group	55248/02	EMP-60

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