

SANTOPRENE® 241-64

A soft, colorable, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in plumbing applications requiring potable water contact and also for food processing equipment. This grade of Santoprene® 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

- · Certified by NSF to NSF/ANSI Standard 51: Food Equipment Materials Plastics, materials and components used in food equipment.
- · Certified by NSF to NSF/ANSI Standard 61: Drinking Water System Components Health Effects.
- · UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component.
- · Recommended for applications requiring excellent flex fatigue resistance.

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Typical moonamoal proportion			
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
Shore A hardness, 15s	69		ISO 48-4 / ISO 868
Compression set at 23°C	18	%	ISO 815
Thermal properties			
RTI, electrical, 1.5mm	100	°C	UL 746B
RTI, strength, 1.5mm	90	°C	UL 746B

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

Electrical properties

Comparative tracking index	PLC 0 PLC	UL 746A
Arc Resistance Performance Level Category	PLC 6 class	UL 746B
High Amperage Arc Ignition Category, 1.5 mm	PLC 0 class	UL 746A
High Voltage Arc Tracking Rate	PLC 3 mm/min	UL 746A

Other properties

Density 970 kg/m ³	ISO 1183
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Printed: 2023-08-08 Page: 1 of 2

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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	196 °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.

Printed: 2023-08-08 Page: 2 of 2

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