

SANTOPRENE® 241-64

SANTOPRENE®

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.

Product information

Resin Identification Part Marking Code	TPV >TPV<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular Stress at break, perpendicular Elongation at break, perpendicular Shore A hardness, 15s Compression set, 23°C Time		%	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868 ISO 815
Thermal properties			
RTI, electrical, 1.5mm RTI, electrical, 3.0mm RTI, strength, 1.5mm RTI, strength, 3.0mm	100 100 90 90	°C	UL 746B UL 746B UL 746B UL 746B
Flammability			
Burning Behav. at 1.5mm nom. thickn. Thickness tested UL recognition Burning Behav. at thickness h Thickness tested UL recognition Hot Wire Ignition, 1.5mm Hot Wire Ignition, 3mm	1.5 yes HB		IEC 60695-11-10 IEC 60695-11-10 UL 94 IEC 60695-11-10 IEC 60695-11-10 UL 94 UL 746A UL 746A
Electrical properties			
Arc Resistance Performance Level Category High Amperage Arc Ignition Category, 1.5 mm	PLC 6 PLC 0		UL 746B UL 746A

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Physical/Other properties

Density 970 kg/m³ ISO 1183

Injection

Max. regrind level 20 % Back pressure 0.517 MPa

Extrusion

Drying Temperature 82 °C
Drying Time, Dehumidified Dryer 3 h
Melt Temperature Range 196 °C

Additional information

Processing Notes

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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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