

# SANTOPRENE<sup>®</sup> 8271-75

## **SANTOPRENE®**

A soft, colorable, specialty, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in non fatty food contact applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

### **Key Features**

• This product, in principle, can be used in food contact applications in the USA (FDA). Migration or use limitations may apply.

Certified by NSF to NSF/ANSI Standard 51: Food Equipment Materials - Plastics, materials and components used in food equipment.

- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component.
- · Recommended for applications requiring excellent flex fatigue resistance.
- Non-hygroscopic product; requires little to no drying before processing.
- · Neutral, easy coloring formulation.

#### **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	8.3 480	MPa MPa %	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37
Shore A hardness, 15s Compression set, 70°C, 24h Compression set, 125°C, 70h	81 37 75		ISO 48-4 / ISO 868 ISO 815 ISO 815
Thermal properties			
RTI, electrical, 1.5mm RTI, electrical, 3.0mm RTI, strength, 1.5mm RTI, strength, 3.0mm		-	UL 746B UL 746B UL 746B UL 746B
Flammability			
Burning Behav. at thickness h Thickness tested UL recognition	=	class mm	IEC 60695-11-10 IEC 60695-11-10 UL 94
Physical/Other properties			
Density	940	kg/m³	ISO 1183



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#### Injection

Max. regrind level Back pressure 20 % 0.517 MPa

## Additional information

Processing Notes

#### **Processing Notes**

Desiccant drying for 3 hours at  $80^{\circ}$ C ( $180^{\circ}$ F) can be performed if desired. Santoprene® TPV has a wide temperature processing window from 175 to  $230^{\circ}$ C (350 to  $450^{\circ}$ F) and is incompatible with acetal and PVC.

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