

# SANTOPRENE® 8271-55

## 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	TPV	ISO 1043
Part Marking Code	>TPV<	ISO 11469

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	2 MPa	ISO 37
Stress at break, perpendicular	4.5 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	430 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	60	ISO 48-4 / ISO 868
Compression set, 70 °C, 24h	20 %	ISO 815
Compression set, 125 °C, 70h	46 %	ISO 815

### Thermal properties

RTI, electrical, 1.5mm	100 °C	UL 746B
RTI, electrical, 3.0mm	100 °C	UL 746B
RTI, strength, 1.5mm	85 °C	UL 746B
RTI, strength, 3.0mm	85 °C	UL 746B

### Flammability

Burning Behav. at thickness h	HB class	IEC 60695-11-10
Thickness tested	1.1 mm	IEC 60695-11-10
UL recognition	yes	UL 94

### Physical/Other properties

Density	960 kg/m <sup>3</sup>	ISO 1183
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### Injection

Max. regrind level	20 %
Back pressure	0.517 MPa

### Additional information

#### Processing Notes

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