

# Santoprene™ 101-55W255

## Thermoplastic Vulcanizate

### Product Description

A soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for use in residential washing machine and dishwasher applications and contains a stabilization system for protection against copper and other metal-catalyzed degradation. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. 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.
- Property retention in presence of typical dishwasher and washing machine detergents.

### General

Applications	<ul style="list-style-type: none"> <li>• Appliance - Dishwasher Seals and Gaskets</li> </ul>	<ul style="list-style-type: none"> <li>• Appliance - Washer Seals and Gaskets</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Appliance Components</li> </ul>	<ul style="list-style-type: none"> <li>• Gaskets</li> <li>• Seals</li> </ul>
Agency Ratings	<ul style="list-style-type: none"> <li>• UL QMFZ2</li> </ul>	<ul style="list-style-type: none"> <li>• UL QMFZ8</li> </ul>
RoHS Compliance	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>	
UL File Number	<ul style="list-style-type: none"> <li>• E80017</li> </ul>	
Color	<ul style="list-style-type: none"> <li>• Black</li> </ul>	
Form(s)	<ul style="list-style-type: none"> <li>• Pellets</li> </ul>	
Processing Method	<ul style="list-style-type: none"> <li>• Coextrusion</li> <li>• Extrusion</li> </ul>	<ul style="list-style-type: none"> <li>• Injection Molding</li> <li>• Multi Injection Molding</li> <li>• Profile Extrusion</li> <li>• Sheet Extrusion</li> </ul>

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.970	0.970	ASTM D792
Density	0.970 g/cm <sup>3</sup>	0.970 g/cm <sup>3</sup>	ISO 1183

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness Shore A, 15 sec, 73°F (23°C)	61	61	ISO 868

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	261 psi	1.80 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	261 psi	1.80 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	754 psi	5.20 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	754 psi	5.20 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	510 %	510 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	510 %	510 %	ISO 37

### Injection Notes

Santoprene™ TPV is incompatible with acetal and PVC. For more information regarding processing and mold design, please consult our Injection Molding Guide.

### Extrusion Notes

Santoprene™ TPV is incompatible with acetal and PVC. For more information regarding processing and die design, please consult our Extrusion Molding Guide.



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Flammability	Typical Value (English)	Typical Value (SI)	Test Based On
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

