

SANTOPRENE® 101-45W255

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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

Product information

Resin Identification	TPV	ISO 1043
Part Marking Code	>TPV<	ISO 11469

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	1.4 MPa	ISO 37
Stress at break, perpendicular	4 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	400 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	48	ISO 48-4 / ISO 868

Flammability

Burning Behav. at thickness h	HB class	IEC 60695-11-10
Thickness tested	1.7 mm	IEC 60695-11-10
UL recognition	yes	UL 94
Burning rate, Thickness 2 mm	37.3 mm/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	980 kg/m ³	ISO 1183
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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.