

SANTOPRENE® 101-55W255

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

Typical mechanical properties

Stress at 100% elongation	1.8 MPa	ISO 527-1/-2 or ISO 37
Stress at break	5.2 MPa	ISO 527-1/-2 or ISO 37
Elongation at break	510 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	61	ISO 48-4 / ISO 868

Flammability

Burning Behav. at thickness h	HB class	UL 94
Thickness tested	3 mm	UL 94
UL recognition	yes	UL 94

Other properties

Density	970 kg/m ³	ISO 1183
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Processing Texts

Processing Notes	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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