

SANTOPRENE™ 101-45W255 - TPV

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

Characteristics

Applications	Appliance - Dishwasher Seals and Gaskets, Appliance - Washer Seals and Gaskets, Seals and Gaskets
Uses	Appliance components, Gaskets, Seals
Agency Ratings	UL QMFZ2, UL QMFZ8
UL File Number	E80017
Color	Black
Delivery Form	Pellets
Processing	Coextrusion, Extrusion, Injection molding, Multi injection molding, Profile extrusion, Sheet extrusion

Physical properties	Value	Unit	Test Standard
Density	61.2	lb/ft ³	ASTM D792
Density	61.2	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	48	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	203	psi	ASTM D412
Tensile stress at 100%, perpendicular	203	psi	ISO 37
Tensile strength at break elast, perpendicular	580	psi	ASTM D412
Tensile stress at break, perpendicular	580	psi	ISO 37
Elongation at break elast, perpendicular	400	%	ASTM D412
Tensile strain at break, perpendicular	400	%	ISO 37

Flammability	Value	Unit
Flame rating, 1.7 mm	HB	UL 94
Flame rating, 3.0 mm	HB	UL 94

Other text information

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.