

SANTOPRENE® 201-55W255

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A soft, colorable 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

- 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	1.9 MPa	ISO 37
Stress at break, perpendicular	5.1 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	450 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	60	ISO 48-4 / ISO 868
Compression set, 23°C, 24h	16 %	ISO 815
Compression set, 70°C, 24h	35 %	ISO 815
Compression set, 100°C, 24h	42 %	ISO 815

Physical/Other properties

Density	960 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.