Celanese
The chemistry inside innovation™

SANTOPRENE® 101-60W261

SANTOPRENE®

A soft, black, versatile thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding, extrusion or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Designed for applications requiring good elastic recovery
- Recommended for applications requiring excellent flex fatigue resistance

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
Tensile stress at break, perpendicular	7.2	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	550	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	65		ISO 48-4 / ISO 868
Compression set, 23°C, 24h	14	%	ISO 815
Compression set, 100°C, 24h	39	%	ISO 815

Physical/Other properties

Density	950	kg/m^3	ISO 1183

Characteristics

Processing	Injection Moulding, Multi Injection Moulding, Extrusion, Sheet Extrusion, Coextrusion, Blow Moulding
Delivery form	Pellets

Additional information

Injection molding	Holding pressure should be about 50 to 75% of the actual injection pressure. A high screw RPM (100 to 200) is recommended. Back pressure is not always needed, however, a back pressure of 0.3 to 0.7 MPa may be used to ensure a homogeneous melt and maintain a consistent shot size. A higher back pressure is normally employed when using masterbatches.
Processing Notes	**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.

Celanese
The chemistry inside innovation™

SANTOPRENE® 101-60W261

SANTOPRENE®

Revised: 2025-04-21 Source: Celanese Materials Database