



SANTOPRENE® 9101-90E

SANTOPRENE®

A hard, 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, blow molding, thermoforming or vacuum forming. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

Excellent resistance to ozone

Product information

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

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	6.2 MPa	ISO 37
Tensile stress at break, perpendicular	14.8 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	650 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	91	ISO 48-4 / ISO 868

Physical/Other properties

Density 950 kg/m³ ISO 1183

Characteristics

Processing Injection Moulding, Extrusion, Blow Moulding, Thermoforming

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. SantopreneTM TPV has a wide temperature processing window from 175 to 230°C (350 to 450°F) and is incompatiable with acetal and PVC. For more information, please consult our Material Safety Data Sheet and Extrusion Guide.

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