

# SANTOPRENE® 9221-87

## SANTOPRENE®

A hard, colorable, UV resistant 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

- Formulated for good UV resistance and colorfastness.

### Product information

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

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	5.8 MPa	ISO 37
Tensile stress at break, perpendicular	8.8 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	450 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	93	ISO 48-4 / ISO 868

### Physical/Other properties

Density	960 kg/m <sup>3</sup>	ISO 1183
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### Characteristics

Processing	Extrusion
Delivery form	Pellets
Special characteristics	U.V. stabilised or stable to weather

### 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.
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### 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.

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