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# 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/m³ | ISO 1183 |

## 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.

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.

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