

# SANTOPRENE® 8221-85M300

## SANTOPRENE®

A hard, colorable, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for automotive interior applications requiring low fogging and good appearance. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

### Key Features

- Neutral, easy coloring formulation.
- Excellent ozone resistance.
- Used in sealing applications.
- Recommended for applications requiring excellent flex fatigue resistance.
- Designed for improved UV resistance.

### Product information

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

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	4.1 MPa	ISO 527-1/-2 or ISO 37
Stress at break, perpendicular	9 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	500 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	84	ISO 48-4 / ISO 868

### Physical/Other properties

Density	920 kg/m <sup>3</sup>	ISO 1183
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### Injection

Drying Temperature	82 °C
Drying Time, Dehumidified Dryer	3 h
Melt Temperature Optimum	215 °C
Min. melt temperature	165 °C
Max. melt temperature	265 °C
Mold Temperature Optimum	50 °C
Min. mould temperature	20 °C
Max. mould temperature	80 °C
Ejection temperature	93 °C

### 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.

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## Specific volume-temperature (pvT)

