

# SANTOPRENE® 8211-85M350

## SANTOPRENE®

A hard, colorable, thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is developed to be used as a skin for molding onto rigid polypropylene substrates in automotive interior applications such as door panels and center consoles. For these applications, this grade combines low gloss, high scratch and mar resistance, low emissions (fogging, odor) and comfort touch. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional mono- and multi-component injection molding machines. It is polyolefin based, adheres to and is compatible with polypropylene, and is recyclable within the manufacturing stream.

### Key Features

- Non-hygroscopic product, requires little to no drying before processing.
- Neutral, easy coloring formulation.
- Designed for applications requiring high-flow materials.
- Low emissions.
- Cost effective alternative to soft touch paint over PP substrate.

### Product information

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

### Typical mechanical properties

Stress at break, perpendicular	8.8 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	480 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	86	ISO 48-4 / ISO 868

### Physical/Other properties

Density	910 kg/m <sup>3</sup>	ISO 1183
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### Injection

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	95 °C

### Additional information

Processing Notes

### Processing Notes

Desiccant drying for 3 hours at 80°C (180°F) can be performed if desired. 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)

