

# SANTOPRENE® 121-80B200

## SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to enhance bonding onto EPDM vulcanized parts and TPV materials. It offers better adhesion on a small contact area, such as for weatherseals with thin lips or complex geometry. 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

- Adheres to TPV and vulcanized EPDM rubber over a wide range of temperatures
- High flexibility and targeted to automotive profiles, TPV or EPDM rubber
- Higher gloss enables matching better extruded profile mating surface
- Used in sealing applications
- Corner Molding

### Product information

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

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	3.9 MPa	ISO 527-1/-2 or ISO 37
Stress at break, perpendicular	11.9 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	725 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	81	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	90 °C

### Additional information

Processing Notes

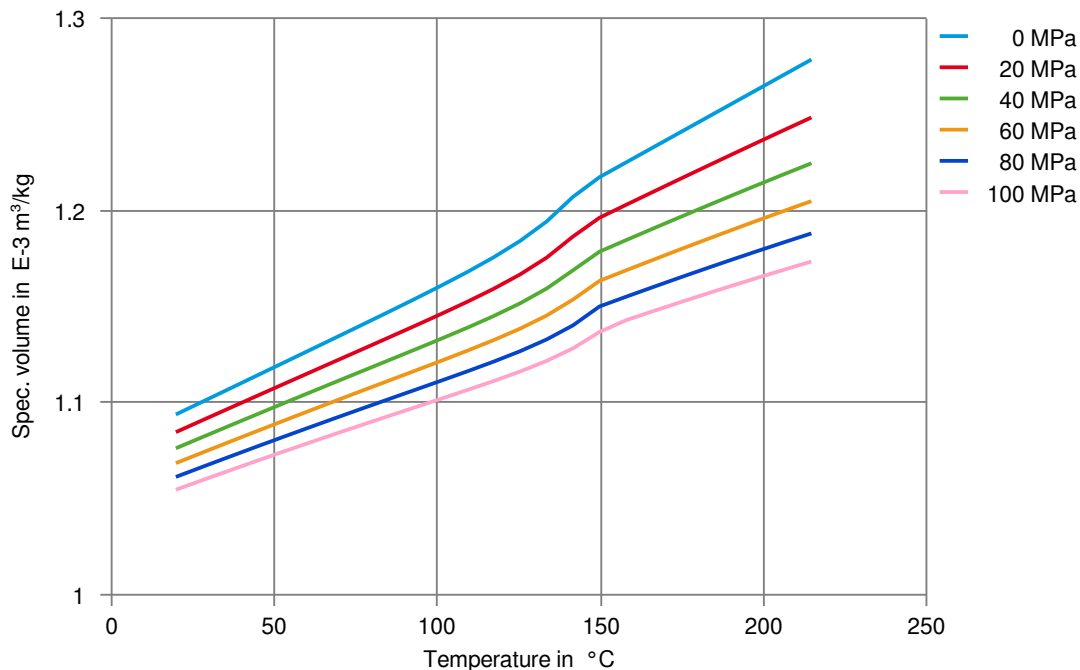
### Processing Notes

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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## Specific volume-temperature (pvT)



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