

# SANTOPRENE® 121-70B230

## SANTOPRENE®

A soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to bond to sulfur or peroxide-cured thermoset EPDM rubber for corner molding, end caps and special fixation applications, and for COF enhancement. 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

- Specially formulated to replace thermoset EPDM rubber in automotive glass run channel corner molding applications
- Designed for shorter processing time compared to thermoset EPDM rubber
- Adheres to vulcanized EPDM rubber over wide range of temperatures
- Adheres to TPV over wide range of temperatures
- Enhanced COF properties
- Good UV resistance
- Low fogging
- Paint stain resistant

### Product information

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

### Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	2.6 MPa	ISO 527-1/-2 or ISO 37
Stress at break, perpendicular	6.5 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	470 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	74	ISO 48-4 / ISO 868
Compression set, 70 °C, 24h	44 %	ISO 815

### Physical/Other properties

Density	920 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	89 °C

### Additional information

Processing Notes

### Processing Notes

Desiccant drying for 3 hours at 65 °C (150 °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)

