

# SANTOPRENE® 121-80B265

## SANTOPRENE®

Santoprene® 121-80B265 is a black thermoplastic vulcanizate (TPV) that combines low coefficient of friction with good bonding to TPV and EPDM rubber. This grade offers improved heat aging performance and excellent processability for injection molding of complex geometries with excellent surface aesthetics. It has low friction retention after heat aging without surface bleeding. It has been designed for corner molding and end cap of automotive extruded weather seals in TPV or in EDPM rubber.

### Key Features

- Low friction injection molding grade
- Specially formulated to replace thermoset EPDM rubber in automotive glass run channel (GRC) corner molding applications
- Designed for shorter processing cycle time compared to thermoset EDPM rubber
- Adheres to vulcanized EPDM rubber and TPV
- Built-in low coefficient of friction properties
- Good flowability with excellent surface aspect

### Product information

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

### Typical mechanical properties

Compression set, 70 °C, 24h	46 %	ISO 815
Tear strength, normal	32 kN/m	ISO 34-1

### Flammability

Burning rate, Thickness 2 mm	33 mm/min	ISO 3795 (FMVSS 302)
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### Physical/Other properties

Density	919 kg/m <sup>3</sup>	ISO 1183
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### Injection

Max. regrind level	20 %
Ejection temperature	84 °C

### Additional information

Processing Notes

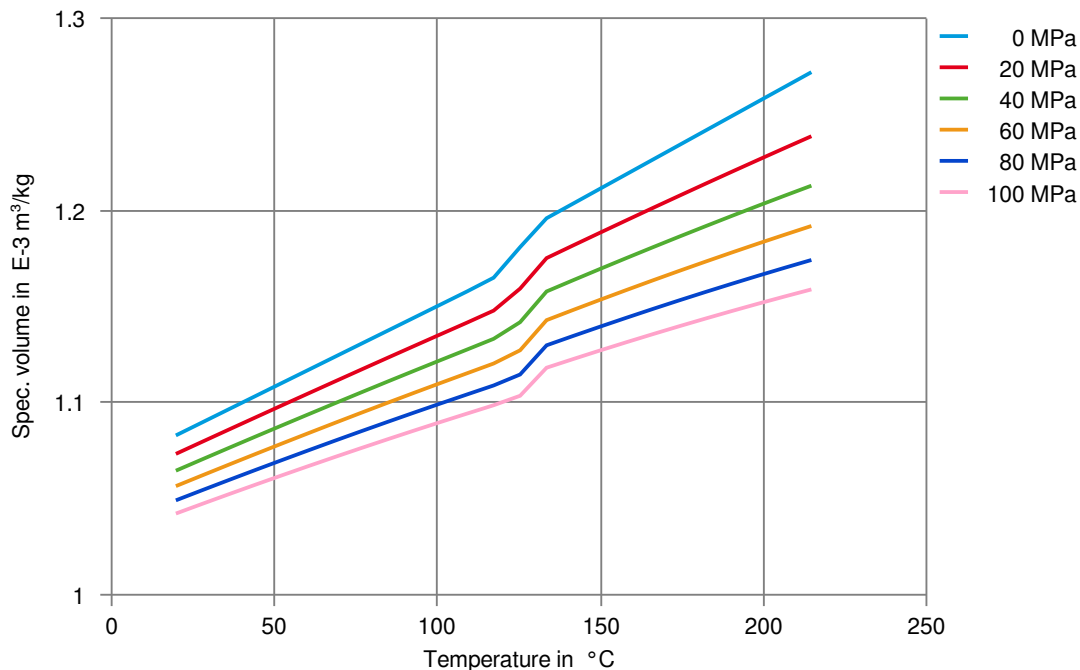
### Processing Notes

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). In order to obtain good bonding on an EPDM sponge profile, the injection speed should be fast (60 - 100mm/sec) and at a very high temperature in a warm mold. The injection pressure should be moderate and the holding pressure kept low in order to prevent profile deformation. The profile should be perfectly positioned in the mold and maintained without deformation to ensure maximum surface interaction with the melt. Cooling time should be longer than a typical TPV in order to initiate recrystallization at the contact interface. Santoprene® TPV is incompatible with acetal and PVC.

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## Specific volume-temperature (pvT)



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