

SANTOPRENE® 121-60M200

SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated with high flow properties and excellent aesthetics for use in injection molded parts such as automotive glass encapsulation. 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

- Designed for fast, easy injection molding, especially for complex part geometries
- Designed to be injected at lower molding temperatures or at lower injection pressures
- Designed with higher gloss to allow for a wider range of gloss tailoring via mold surface
- Recommended for applications requiring superior part surface appearance with minimal to no flow defects or tiger stripes

Product information

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

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	2.06 MPa	ISO 37
Stress at break, perpendicular	4.1 MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	379 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	61	ISO 48-4 / ISO 868
Compression set, 70 °C, 24h	28 %	ISO 815
Compression set, 125 °C, 70h	44 %	ISO 815
Tear strength, normal	18 kN/m	ISO 34-1

Physical/Other properties

Density	950 kg/m³	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	91 °C

Additional information

Processing Notes

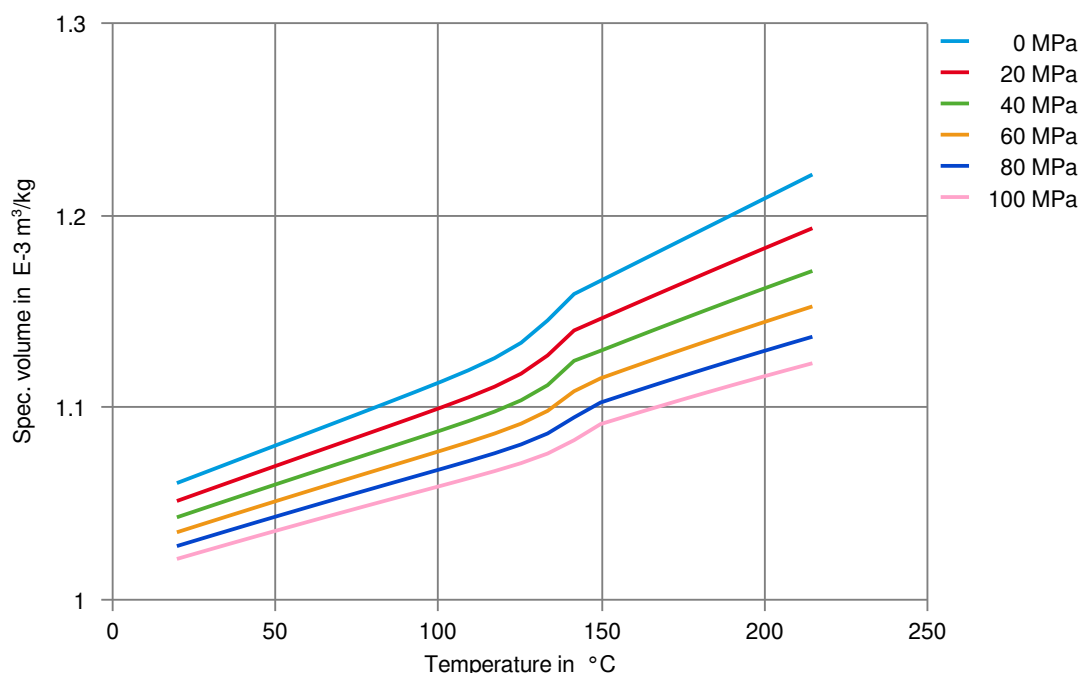
Processing Notes

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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Page: 2 of 2

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