

SANTOPRENE® 8223-30M300

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A hard, colorable, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for automotive interior applications requiring low fogging and good appearance. 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

- Neutral, easy coloring formulation.
- Recommended for applications requiring excellent ozone resistance.
- Used in sealing applications.
- Recommended for applications requiring excellent flex fatigue resistance.
- Designed for improved UV resistance.

Product information

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

Typical mechanical properties

| | | |
|--|---------|------------------------|
| Tensile stress at 100% elongation, perpendicular | 5.3 MPa | ISO 527-1/-2 or ISO 37 |
| Stress at break, perpendicular | 9.3 MPa | ISO 527-1/-2 or ISO 37 |
| Elongation at break, perpendicular | 490 % | ISO 527-1/-2 or ISO 37 |
| Shore D hardness, 15s | 26 | ISO 48-4 / ISO 868 |

Physical/Other properties

| | | |
|---------|-----------|----------|
| Density | 920 kg/m³ | ISO 1183 |
|---------|-----------|----------|

Injection

| | |
|---------------------------------|--------|
| Drying Temperature | 82 °C |
| Drying Time, Dehumidified Dryer | 3 h |
| 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 | 94 °C |

Additional information

Processing Notes

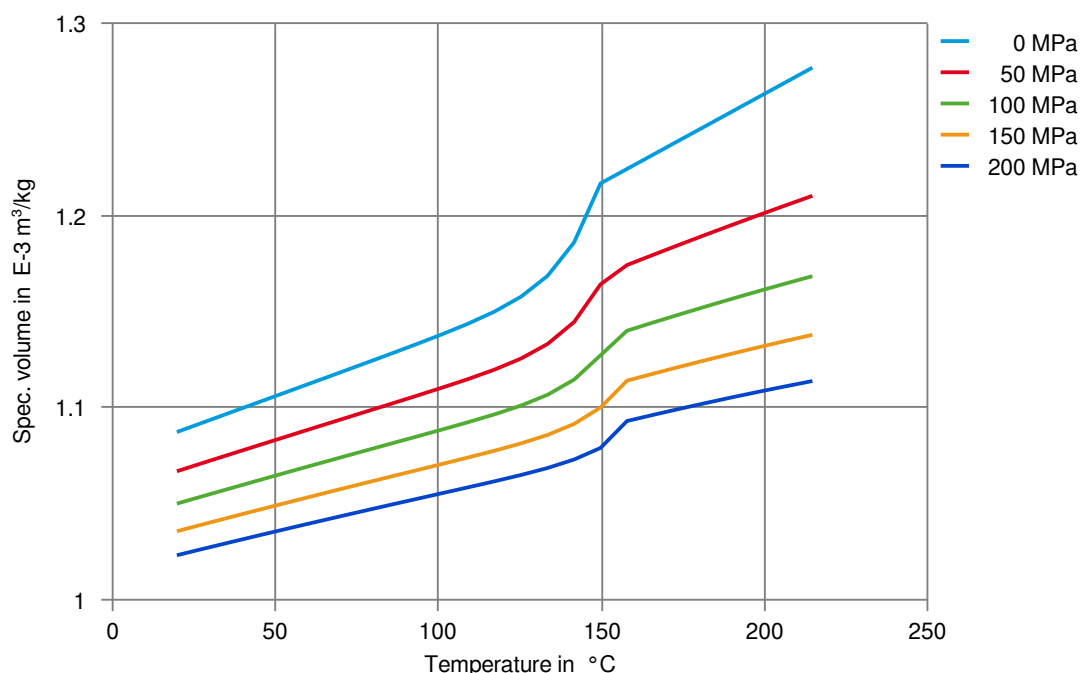
Processing Notes

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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