

# SANTOPRENE® 121-75M200

## 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 ISO 11469 Part Marking Code >TPV< Typical mechanical properties Tensile stress at 100% elongation, perpendicular 3.14 MPa **ISO 37** Stress at break, perpendicular 5.77 MPa ISO 527-1/-2 or ISO 37 423 % ISO 527-1/-2 or ISO 37 Elongation at break, perpendicular Shore A hardness, 15s 76 ISO 48-4 / ISO 868 Compression set, 70°C, 24h 36 % ISO 815 Compression set, 125°C, 70h 64 % ISO 815 Tear strength, normal 23 kN/m ISO 34-1 Flammability Burning rate, Thickness 2 mm 43.9 mm/min ISO 3795 (FMVSS 302) Physical/Other properties Density 950 kg/m<sup>3</sup> ISO 1183 Injection Ejection temperature 94 °C

#### Additional information

**Processing Notes** 

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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.

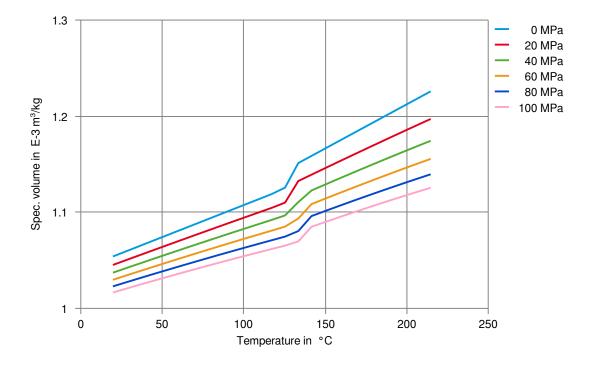
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Specific volume-temperature (pvT)



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