

# SANTOPRENE® 121-85M100

### **SANTOPRENE®**

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in difficult injection molding applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recycled within the manufacturing stream.

## **Key Features**

- · Used in applications for exterior trims and spoilers for injection molding
- · Designed for fast, easy injection molding, especially for complex part geometries
- Used in sealing applications
- Recommended for applications requiring improved part surface appearance
- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada -Component

#### **Product information**

Resin Identification Part Marking Code	TPV >TPV<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular Stress at break, perpendicular Elongation at break, perpendicular Brittleness Temperature Shore A hardness, 15s Compression set, 70°C, 24h Compression set, 125°C, 70h Tear strength, normal	7.28 390 -52 89 49 76	°C	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ASTM D 746 ISO 48-4 / ISO 868 ISO 815 ISO 815
Flammability			
Burning Behav. at thickness h Thickness tested UL recognition	HB 1.1 yes	class mm	IEC 60695-11-10 IEC 60695-11-10 UL 94
Physical/Other properties Density	910	kg/m³	ISO 1183
Injection			

### Additional information

Ejection temperature

**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. For physical foaming, a specially modified thermoplastic extruder equipped with an adapted foaming agent dosing device is required. For mechanical foaming, a 30:1 extruder is

92 °C

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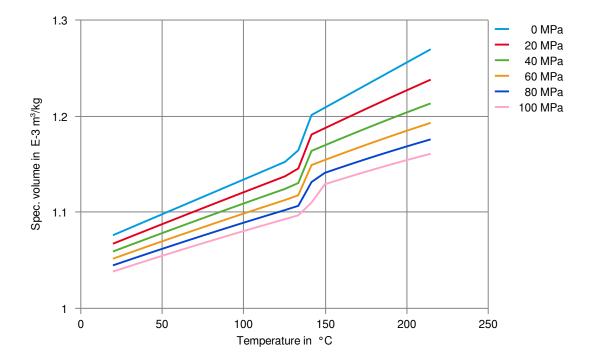


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recommended.

Specific volume-temperature (pvT)



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