

# SANTOPRENE® 121-67W175

### **SANTOPRENE®**

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance, and is designed for thin wall or complex profile extrusion applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion, thermoforming or vacuum forming. It is polyolefin based and recyclable within the manufacturing stream.

## **Key Features**

- · Recommended for applications requiring excellent flex fatigue resistance
- Excellent ozone resistance
- Designed for improved UV resistance
- Designed for extruding thin wall sections with excellent definition (down to 0.33 mm [0.013"] radius) and to maximize run length with minimal build-up of material on screen packs or narrow sections of dies

#### **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	2.89 MPa 6.83 MPa 432 % -59 °C 72 29 % 43 %	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
Tear strength, normal	24 kN/m	ISO 34-1
Specific Application Suitability		
Continuous Upper Temperature Resistance, 1000h	135 °C	SAE J2236
Electrical properties		
Relative permittivity, 60Hz Electric Strength, Short Time, 2mm	2.6 26 kV/mm	IEC 62631-2-1 ASTM D 149
Physical/Other properties		
Density	970 kg/m <sup>3</sup>	ISO 1183
Extrusion		
Drying Temperature Drying Time, Dehumidified Dryer Melt Temperature Range	82 °C 3 h 177 - 204 °C	

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#### Additional information

**Processing Notes** 

### **Processing Notes**

Desiccant drying for 3 hours at  $80^{\circ}$ C ( $180^{\circ}$ F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to  $230^{\circ}$ C (350 to  $450^{\circ}$ F) and is incompatible with acetal and PVC. Do not exceed 15% drawdown.

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