



## SANTOPRENE® 121-67W175J

## **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 Tensile stress at break, perpendicular Elongation at break, perpendicular Brittleness Temperature Low temperature brittleness Shore A hardness, 15s Compression set, 70°C, 24h Compression set, 125°C, 70h Tear strength, normal	2.89 MPa 6.83 MPa 432 % -59 °C -59 °C 72 29 % 43 % 24 kN/m	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ASTM D 746 ISO 812 ISO 48-4 / ISO 868 ISO 815 ISO 815
•	Z-7 K(V/III	100 34 1
Specific Application Suitability Continuous Upper Temperature Resistance, 1000h	135 °C	SAE J2236
Electrical properties Relative permittivity, 60Hz	2.6	IEC 62631-2-1
Physical/Other properties Density	970 kg/m³	ISO 1183
Extrusion  Drying Temperature Drying Time, Dehumidified Dryer Melt Temperature Range	82 °C 3 h 177 - 204 °C	

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### Characteristics

Processing Extrusion, Sheet Extrusion, Coextrusion, Thermoforming

Delivery form Pellets

Special characteristics U.V. stabilised or stable to weather

#### Additional information

Non Standard Data

Property Name	Condition	Value	Unit	Standard
Change in Tensile Strength	150°C, 168h	-12.1	%	ISO 188
Change in Tensile Strain at Break	150°C, 168h	-0.5	%	ISO 188
Change in Shore A Hardness	150°C, 168h	0	-	ISO 188

Injection molding Holding pressure should be about 50 to 75% of the actual injection pressure.

A high screw RPM (100 to 200) is recommended.

Back pressure is not always needed, however, a back pressure of 0.3 to 0.7 MPa may be used to ensure a homogeneous melt and maintain a consistent shot size. A higher back pressure is normally employed when using masterbatches.

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. Do not exceed 15% drawdown.

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