



ISO 1043

ISO 11469

SANTOPRENE® 121-70B230J

SANTOPRENE®

A soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to bond to sulfur or peroxide-cured thermoset EPDM rubber for corner molding, end caps and special fixation applications, and for COF enhancement. 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

- Specially formulated to replace thermoset EPDM rubber in automotive glass run channel corner molding applications
- Designed for shorter processing time compared to thermoset EPDM rubber
- · Adheres to vulcanized EPDM rubber over wide range of temperatures
- · Adheres to TPV over wide range of temperatures
- Enhanced COF properties
- · Good UV resistance
- · Low fogging
- · Paint stain resistant

Product information

Resin Identification

Part Marking Code

Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	2.6	MPa	ISO 37
Tensile stress at break, perpendicular	6.5	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	470	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	74		ISO 48-4 / ISO 868
Compression set, 70°C, 24h	44	%	ISO 815

TPV

>TPV<

Physical/Other properties

Density 920 kg/m³ ISO 1183

Injection

Drying Recommended	yes
Drying Temperature	65 °C
Drying Time, Dehumidified Dryer	≥3 h
Processing Moisture Content	≤0.08 %
Melt Temperature Optimum	245 °C
Min. melt temperature	230 °C
Max. melt temperature	260 °C
Mold Temperature Optimum	30 °C
Min. mould temperature	25 °C
Max. mould temperature	40 °C

Characteristics

Processing Injection Moulding, Multi Injection Moulding

Delivery form Pellets

Special characteristics U.V. stabilised or stable to weather

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Additional information

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

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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.

Santoprene® TPV has a relatively high melt viscosity at low shear rates. Viscosity decreases as the shear rate increases.

Increasing temperature has little effect on TPV melt viscosity. Smaller gates and higher shear rates keep melt viscosity low and improve melt flow. Please also refer to the injection molding guide.

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