

SANTOPRENE® 121-50E500

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A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material has controlled rheology for robotic or specialty extrusion applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- · Designed for applications requiring good elastic recovery
- Designed for improved UV resistance
- Recommended for applications requiring superior part surface appearance

Product information

Resin Identification	TPV	ISO 1043
Part Marking Code	>TPV<	ISO 11469

Typical mechanical properties

Tensile stress at 100% elongation, perpendicular	1.7	MPa	ISO 37
Stress at break, perpendicular	4	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	450	%	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-61	°C	ASTM D 746
Shore A hardness, 15s	56		ISO 48-4 / ISO 868
Compression set, 70°C, 24h	23	%	ISO 815
Compression set, 125°C, 70h	41	%	ISO 815

Physical/Other properties

Density 910 kg/m³ ISO 1183

Additional information

Processing Notes

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Desiccant drying for 3 hours at 80° C (180° F) is recommended. This grade of Santoprene® TPV has a wide temperature processing window from 190 to 230° C (375 to 445° F) and is incompatible with acetal and PVC.

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