

SANTOPRENE® 121-80B230

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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

Product information

Resin Identification	TPV		ISO 1043
Part Marking Code	>TPV<		ISO 11469
Typical machanical proportion			
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	3.3	MPa	ISO 37
Stress at break, perpendicular	8.3	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	540	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	80		ISO 48-4 / ISO 868
Compression set, 70°C, 24h	50	%	ISO 815
Physical/Other properties			
Density	920	kg/m³	ISO 1183

Additional information

Processing Notes

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Desiccant drying for 3 hours at 65 °C (150 °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.

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