

SANTOPRENE® 121-70B230J

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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
- · Good UV resistance
- Low fogging
- · Paint stain resistant

Product information

Resin Identification Part Marking Code	TPV >TPV<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	2.6	MPa	ISO 37
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
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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