SANTOPRENE® 121-70B230

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

Typical mechanical properties

Stress at 100% elongation	2.6	MPa	ISO 527-1/-2 or ISO 37
Stress at break	6.5	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	470	%	ISO 527-1/-2 or ISO 37
Shear Modulus	14.1	MPa	ISO 6721
Shore A hardness, 15s	74		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	44	%	ISO 815

Other properties

Density	920	kg/m³	ISO 1183

Injection

Melt Temperature Optimum	215	°C	Internal

Processing Texts

Processing Notes	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.

Other Approvals

Other Approvals

OEM	Specification
GM	GMW15825, Type 5
Mercedes-Benz Group (Daimler)	DBL 5562
Renault	FRM 18-27-093 /---

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VW Group	VW50180

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