

SANTOPRENE® 121-70B230

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	TPV >TPV<	ISO 1043 ISO 11469
Typical mechanical properties		
Tensile stress at 100% elongation, perpendicular Stress at break, perpendicular Elongation at break, perpendicular Shore A hardness, 15s Compression set, 70°C, 24h	2.6 MPa 6.5 MPa 470 % 74 44 %	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868 ISO 815
Flammability		
Burning rate, Thickness 2 mm	42.4 mm/min	ISO 3795 (FMVSS 302)
Physical/Other properties Density	920 kg/m³	ISO 1183
Injection Ejection temperature	89 °C	
Additional information		

Additional information

Processing Notes

Desiccant drying for 3 hours at $65 \degree C (150 \degree F)$ 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.

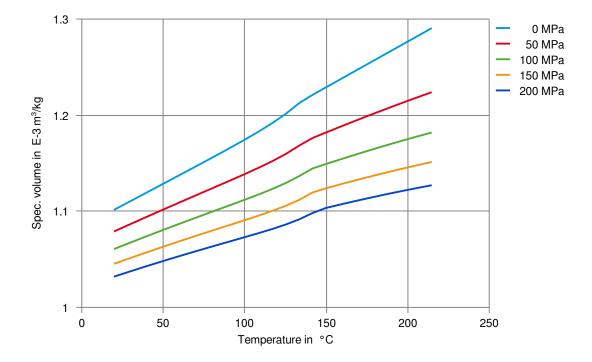
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Specific volume-temperature (pvT)



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