

# Santoprene™ 121-70B230

## Thermoplastic Vulcanizate

### Product Description

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.

### General

Applications	▪ Automotive - Weather Seals		
Uses	▪ Automotive Applications	▪ Automotive Exterior Trim	▪ Outdoor Applications
RoHS Compliance	▪ RoHS Compliant		
Automotive Specifications	▪ GM GMW15825 Type 5		
Color	▪ Black		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding	▪ Multi Injection Molding	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.920	0.920	ASTM D792
Density	0.920 g/cm <sup>3</sup>	0.920 g/cm <sup>3</sup>	ISO 1183

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness			ISO 868
Shore A, 15 sec, 73°F (23°C)	74	74	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	377 psi	2.60 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	377 psi	2.60 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	943 psi	6.50 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	943 psi	6.50 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	470 %	470 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	470 %	470 %	ISO 37
Compression Set			ASTM D395B
158°F (70°C), 22 hr, Type 1	44 %	44 %	
Compression Set			ISO 815
158°F (70°C), 22 hr, Type A	44 %	44 %	

