

# Santoprene™ 121-65B200

## Thermoplastic Vulcanizate

### Product Description

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to bond to thermoset EPDM rubber for corner molding, end caps and special applications requiring such adhesion to thermoset EPDM. 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

- Adheres to vulcanized EPDM rubber over wide range of temperatures.
- High flexibility targeted for dynamic EPDM applications.
- Higher gloss enables matching EPDM mating surface.
- Used in sealing applications.

### General

Applications	Automotive - Corner Molding and End Caps	Automotive - Weather Seals
Uses	Outdoor Applications	
RoHS Compliance	RoHS Compliant	
Automotive Specifications	GM GMW15702-023551	
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	0.910	0.910	ASTM D792
Density	0.910 g/cm <sup>3</sup>	0.910 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)	67	67	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	334 psi	2.30 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	334 psi	2.30 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1330 psi	9.20 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1330 psi	9.20 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	600 %	600 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	600 %	600 %	ISO 37
Compression Set			ASTM D395B
73°F (23°C), 22 hr, Type 1	22 %	22 %	
158°F (70°C), 22 hr, Type 1	48 %	48 %	
158°F (70°C), 168 hr, Type 1	53 %	53 %	
Compression Set			ISO 815
73°F (23°C), 22 hr, Type A	22 %	22 %	
158°F (70°C), 22 hr, Type A	48 %	48 %	
158°F (70°C), 168 hr, Type A	53 %	53 %	

