ExxonMobil

Santoprene™ 121-80B200

Thermoplastic Vulcanizate

Product Description

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to enhance bonding onto EPDM vulcanized parts and TPV materials. It offers better adhesion on a small contact area, such as for weatherseals with thin lips or complex geometry. 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 TPV and vulcanized EPDM rubber over a wide range of temperatures.
- High flexibility and targeted to automotive profiles, TPV or EPDM rubber.
- Higher gloss enables matching better extruded profile mating surface.
- Used in sealing applications.
- Corner Molding.

General

Applications	▪ Automotive - Weather Seals	
Uses	▪ Corner Molding	▪ Outdoor Applications
RoHS Compliance	▪ RoHS Compliant	
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/cm³	0.910	g/cm³	ISO 1183

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Shore Hardness					ISO 868
Shore A, 15 sec, 73°F (23°C)	81		81		

Elastomers	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	566	psi	3.90	MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	566	psi	3.90	MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1730	psi	11.9	MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1730	psi	11.9	MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	730	%	730	%	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	730	%	730	%	ISO 37