

SANTOPRENE™ 121-80B200 - TPV

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

Characteristics

Applications	Automotive - Weather Seals
Uses	Corner molding, Outdoor applications
Color	Black
Delivery Form	Pellets
Processing	Injection molding, Multi injection molding

Physical properties	Value	Unit	Test Standard
Density	56.8	lb/ft ³	ASTM D792
Density	56.8	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	81	

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	566	psi	ASTM D412
Tensile stress at 100%, perpendicular	566	psi	ISO 37
Tensile strength at break elast, perpendicular	1730	psi	ASTM D412
Tensile stress at break, perpendicular	1730	psi	ISO 37
Elongation at break elast, perpendicular	725	%	ASTM D412
Tensile strain at break, perpendicular	725	%	ISO 37

Other text information

Processing Notes

Desiccant drying for 3 hours at 80°C (180°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

OEM	Specification	Additional Information
Stellantis - PSA Group	PMP 01378_15_01962	
Mercedes-Benz Group (Daimler)	DBL 5562	
Stellantis - FCA Group	EMP 80	55248_02
Geely	Q/JLY J7110166B	
Renault	FRM 18-27-142	

SAIC Motor
VW Group

SMTC 5 320 024
VW50123

General Disclaimer

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