

SANTOPRENE™ 121-65B200 - TPV

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

Characteristics

Applications	Automotive - Corner Molding and End Caps, Automotive - Weather Seals
Uses	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	67	
		ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	334	psi	ASTM D412
Tensile stress at 100%, perpendicular	334	psi	ISO 37
Tensile strength at break elast, perpendicular	1330	psi	ASTM D412
Tensile stress at break, perpendicular	1330	psi	ISO 37
Elongation at break elast, perpendicular	600	%	ASTM D412
Tensile strain at break, perpendicular	600	%	ISO 37
Compression set, 23 °C, 22h, Type 1, Method B	22	%	ASTM D395
Compression set, 23 °C, 22h, Type A	22	%	ISO 815
Compression set, 70 °C, 168h, Type 1, Method B	53	%	ASTM D395
Compression set, 70 °C, 168h, Type A	53	%	ISO 815
Compression set, 70 °C, 22h, Type 1, Method B	48	%	ASTM D395
Compression set, 70 °C, 22h, Type A	48	%	ISO 815

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.

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Other Approvals

OEM	Specification	Additional Information
Stellantis - FCA Group	EMP 60	55248_02
Mercedes-Benz Group	DBL 5562	
Renault	FRM 18-27-141 /---	
Geely	Q/JLY J7110166B	
SAIC Motor	SMTC 5 320 024	
VW Group	TL52641C	
VW Group	TL52703	
VW Group	VW50123	
VW Group	VW50180	