

SANTOPRENE[®] 121-62M100

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in difficult injection molding applications. 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

- Designed for fast, easy injection molding, especially for complex part geometries
- Used in sealing applications
- Recommended for applications requiring improved part surface appearance
- · Designed to be injected at lower molding temperatures or at lower injection pressures
- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component

Typical mechanical properties

Stress at 100% elongation	2.46	MPa	ISO 527-1/-2 or ISO 37
Stress at break	4.65	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	417	%	ISO 527-1/-2 or ISO 37
Shear Modulus	6.6	MPa	ISO 6721
Brittleness Temperature	-60	°C	ASTM D 746
Low temperature brittleness	-60	°C	ISO 812
Shore A hardness, 15s	67		ISO 48-4 / ISO 868
Shore A hardness change, after ageing	4		ISO 48-4 / ISO 868
Compression set at 70°C, 24h	34	%	ISO 815
Compression Set, 125°C, 70h	47	%	ISO 815
Initial Tear Resist., Die C	19	kN/m	ISO 34-1
Flammability			
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	1.1	mm	UL 94
UL recognition	yes		UL 94
Other properties			
Density	915	kg/m³	ISO 1183
Injection			
Drving Temperature	82	°C	
Drving Time. Dehumidified Drver	3	h	
Processing Moisture Content	0.08	%	
Max. regrind level	20	%	
Melt Temperature Optimum	215	°C	Internal
Max. mould temperature	10 - 52	°C	
Vent depth	25	μm	
		-	

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Back pressure Injection speed

Processing Texts

Processing Notes

0.345 - 0.689 MPa fast

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

Other Approvals

OEM	Specification	Additional Information
Stellantis - Chrysler	MS-AR-100 BMV	
GM	GMW15812, Type 5M	
Stellantis - FCA Group	55248/02	EMP-60
Mercedes-Benz Group (Daimler)	DBL 5562	
Geely	Q/JLY J7110166B	
Li Auto	Q/LiA5310057	2021 (V2)
MAN	M3236 A6	
Hyundai	MS220-13, Type D-1	
Renault	FRM 18-27-136 /	
Renault	UB09f	PMR2021
SAIC Motor	SMTC 5 320 024	
VW Group	TL 526 22	MD05
VW Group	TL 526 41C	
VW Group	VW50123	
VW Group	VW50123	LD3002 BLK, SP- Airguide VW DE SP121-62M100



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