

SANTOPRENE[®] 121-75M100

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

- Used in glass encapsulation applications
- Designed for fast, easy injection molding, especially for complex part geometries
- Used in sealing applications
- · Recommended for applications requiring improved part surface appearance
- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component

Typical mechanical properties

Stress at 100% elongation	3.79	MPa	ISO 527-1/-2 or ISO 37
Stress at break	6.59	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	441	%	ISO 527-1/-2 or ISO 37
Shear Modulus	12.9	MPa	ISO 6721
Brittleness Temperature	-60	°C	ASTM D 746
Low temperature brittleness	-60	°C	ISO 812
Shore A hardness, 15s	80		ISO 48-4 / ISO 868
Shore A hardness change, after ageing	3		ISO 48-4 / ISO 868
Compression set at 23 °C	28	%	ISO 815
Compression set at 70°C, 24h	42	%	ISO 815
Compression Set, 125°C, 70h	55	%	ISO 815
Tear strength, normal	25.5	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	920	kg/m ³	ISO 1183
Injection			
-	00	• •	
Drying Temperature		°C	
Drying Time, Dehumidified Dryer	-	h	
Processing Moisture Content	0.08		
Max. regrind level	20		liste we st
Melt Temperature Optimum	215		Internal
Max. mould temperature	10 - 52	ъ	

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Vent depth Back pressure Injection speed

Processing Texts

Processing Notes

25 μm 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

OEM	Specification	Additional Information
Stellantis - Chrysler	MS-AR-100 CMV	
GM	GMW15812, Type 7M	
Mercedes-Benz Group (Daimler)	DBL 5562	
Stellantis - FCA Group	55248/02	EMP-80
Geely	Q/JLY J7110166B	
Hyundai	MS220-05, Type L	
Li Auto	Q/LiA5310057	2021 (V2)
MAN	M3236 A7	
SAIC Motor	SMTC 5 320 024	
VW Group	TL 526 22	MD06
VW Group	VW50123	
VW Group	VW50123	LD3002 BLK, SKODA_Octavia SK38_Brano_Fuel tank sealing bellow_STP 121-75M100
Stellantis - PSA Group	PMP 01378_15_01959	



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Page: 3 of 3

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