

SANTOPRENE[®] 121-75M100

SANTOPRENE®

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

Product information

Resin Identification Part Marking Code	TPV >TPV<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	3.79	MPa	ISO 37
Stress at break, perpendicular	6.59 I		ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	441 9	%	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-60	°C	ASTM D 746
Shore A hardness, 15s	80		ISO 48-4 / ISO 868
Compression set, 23°C	28 9	%	ISO 815
Time	70 ł	h	
Compression set, 70°C, 24h	42 9	%	ISO 815
Compression set, 125°C, 70h	55 9		ISO 815
Tear strength, normal	26	kN/m	ISO 34-1
Flammability			
Burning Behav. at thickness h	HB d	class	IEC 60695-11-10
Thickness tested	1.1 r		IEC 60695-11-10
UL recognition	yes		UL 94
Physical/Other properties			
Density	930 k	kg/m³	ISO 1183
Injection			
Drying Temperature	82	۰C	
Drying Time, Dehumidified Dryer		h	
Processing Moisture Content	≤0.08 °		
Max. regrind level	20 9		
Melt Temperature Optimum	215		
Min. melt temperature	165		
Max. melt temperature	265		
Mold Temperature Optimum	50		
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Min. mould temperature Max. mould temperature Back pressure Ejection temperature 20 °C 80 °C 0.517 MPa 96 °C

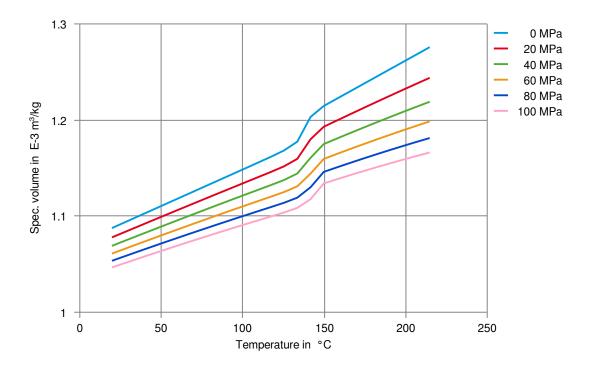
Additional information

Processing Notes

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Desiccant drying for 3 hours at $80 \degree C$ ($180 \degree F$) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230 $\degree C$ (350 to 450 $\degree F$) and is incompatible with acetal and PVC.

Specific volume-temperature (pvT)





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