

SANTOPRENE® 111-35

SANTOPRENE®

A soft, black, versatile thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of 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

- · Recommended for applications requiring excellent flex fatigue resistance
- UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada -Component
- Excellent ozone resistance
- Designed for applications requiring high-flow materials

Product information

Product information			
Resin Identification	TPV		ISO 1043
Part Marking Code	>TPV<		ISO 11469
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Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	1	MPa	ISO 37
Stress at break, perpendicular	2.9	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	330	%	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-63	°C	ASTM D 746
Shore A hardness, 15s	38		ISO 48-4 / ISO 868
Compression set, 23°C, 24h	10	%	ISO 815
Compression set, 125°C, 70h	31	%	ISO 815
Flammability			
Burning Behav. at 1.5mm nom. thickn.	НВ	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	yes		UL 94
Physical/Other properties			
Density	930	kg/m³	ISO 1183
Injection			
Drying Temperature	82	°C	
Drying Time, Dehumidified Dryer		h	
Processing Moisture Content	≤0.08		
Max. regrind level	20		
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215 °C

165 °C

265 °C

50 °C 20 °C

80 °C 0.517 MPa

87 °C

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Melt Temperature Optimum

Min. melt temperature

Max. melt temperature Mold Temperature Optimum

Min. mould temperature Max. mould temperature

Back pressure Ejection temperature



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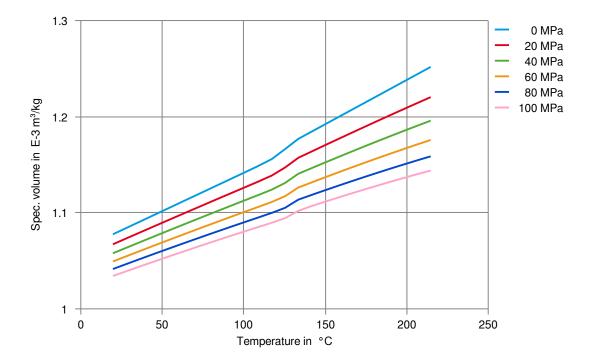
Additional information

Processing Notes

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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.

Specific volume-temperature (pvT)



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