

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 Resin Identification	TPV		ISO 1043
Part Marking Code	>TPV<		ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular Stress at break, perpendicular Elongation at break, perpendicular Brittleness Temperature Shore A hardness, 15s Compression set, 23°C, 24h		°C	ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ASTM D 746 ISO 48-4 / ISO 868 ISO 815
Flammability			
Burning Behav. at 1.5mm nom. thickn. Thickness tested UL recognition		class mm	IEC 60695-11-10 IEC 60695-11-10 UL 94
Physical/Other properties			
Density	930	kg/m³	ISO 1183
Injection			
Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Max. regrind level Melt Temperature Optimum Min. melt temperature Max. melt temperature Mold Temperature Optimum Min. mould temperature Max. mould temperature Back pressure	3 ≤0.08 20 215 165 265 50 20 80 0.517	% °C °C °C °C °C MPa	
•	0.517		

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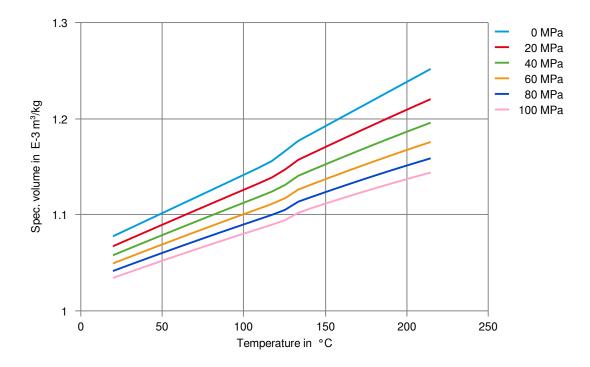
Additional information

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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Page: 3 of 3