

SANTOPRENE® 8211-75

SANTOPRENE®

A soft, colorable, non-hygroscopic 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 or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- · Non-hygroscopic product, requires little to no drying before processing.
- · Neutral, easy coloring formulation.
- · Recommended for applications requiring excellent ozone resistance.
- · Used in sealing applications.
- · Recommended for applications requiring excellent flex fatigue resistance.
- · 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 Stress at break, perpendicular Elongation at break, perpendicular Brittleness Temperature Shore A hardness, 15s Compression set, 70°C, 24h		°C	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
Thermal properties			
RTI, electrical, 1.5mm RTI, electrical, 3.0mm RTI, strength, 1.5mm RTI, strength, 3.0mm			UL 746B UL 746B UL 746B UL 746B
Flammability			
Burning Behav. at thickness h 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			
Processing Moisture Content Max. regrind level Melt Temperature Optimum Min. melt temperature Max. melt temperature	≤0.08 20 215 165 265	% °C °C	

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Mold Temperature Optimum	50 °C
Min. mould temperature	20 °C
Max. mould temperature	80 °C
Back pressure	0.517 MPa
Ejection temperature	87 °C

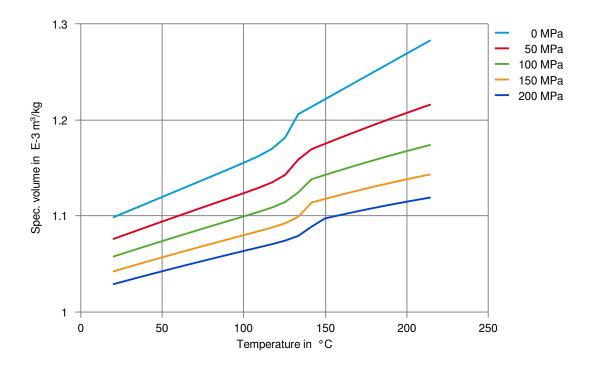
Additional information

Processing Notes

Processing Notes

Desiccant drying for 3 hours at 80 °C (180 °F) can be performed if desired. 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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