

SANTOPRENE[®] 8211-65

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 Compression set, 125°C, 70h	2.5 5.5 510 ° -63 ° 70 29 ° 55 °	MPa % °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 ISO 815
Thermal properties			
RTI, electrical, 1.5mm RTI, electrical, 3.0mm RTI, strength, 1.5mm RTI, strength, 3.0mm	100 100 90 95	°C °C	UL 746B UL 746B UL 746B UL 746B
Flammability			
Burning Behav. at thickness h Thickness tested UL recognition	HB o 1.1 r yes		IEC 60695-11-10 IEC 60695-11-10 UL 94
Physical/Other properties			
Density	930 H	kg/m³	ISO 1183
Injection			
Processing Moisture Content Max. regrind level Melt Temperature Optimum Min. melt temperature	≤0.08 20 215 165	% °C	

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Max. melt temperature	265 °C
Mold Temperature Optimum	50 °C
Min. mould temperature	20 °C
Max. mould temperature	80 °C
Back pressure	0.517 MPa
Ejection temperature	89 °C

Additional information

Processing Notes

Processing Notes

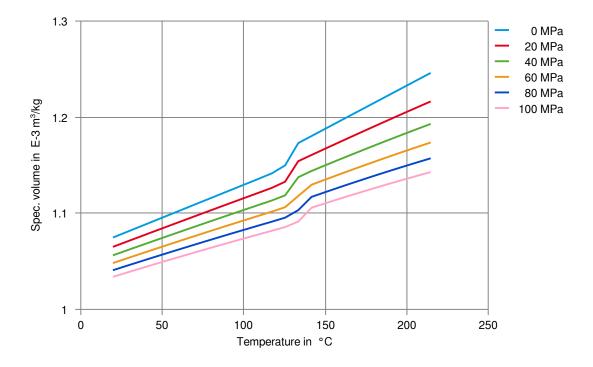
Desiccant drying for 3 hours at 80 °C (180 °F) can be performed if desired. Santoprene® TPV has a wide temperature processing window from 175 to 230 °C (350 to 450 °F) and is incompatible with acetal and PVC.



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Specific volume-temperature (pvT)



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Page: 3 of 3

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