

SANTOPRENE® 8221-85M300

SANTOPRENE®

A hard, colorable, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for automotive interior applications requiring low fogging and good appearance. 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

- · Neutral, easy coloring formulation.
- · Excellent ozone resistance.
- · Used in sealing applications.
- Recommended for applications requiring excellent flex fatigue resistance.
- · Designed for improved UV resistance.

Product information

Resin Identification	TPV		ISO 1043
Part Marking Code	>TPV<		ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	4.1	MPa	ISO 527-1/-2 or ISO 37
Stress at break, perpendicular	9	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	500	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	84		ISO 48-4 / ISO 868
Physical/Other properties			
Density	920	kg/m³	ISO 1183
Injection			
Drying Temperature	82	°C	
Drying Time, Dehumidified Dryer	3	h	
Melt Temperature Optimum	215	°C	
Min. melt temperature	165	°C	
Max. melt temperature	265	°C	
Mold Temperature Optimum	50	°C	
Min. mould temperature	20	°C	
Max. mould temperature	80	°C	

Additional information

Ejection temperature

Processing Notes

Processing Notes

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.

93 °C

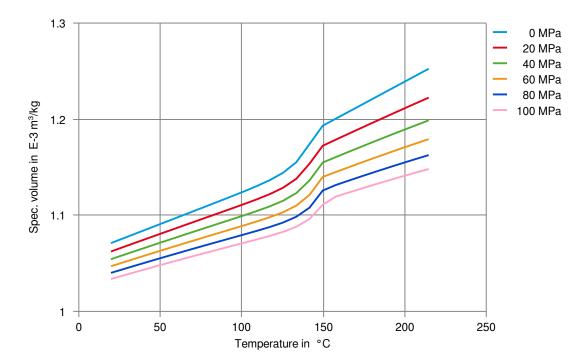
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Specific volume-temperature (pvT)



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