

# Santoprene™ 8221-85M300

## Thermoplastic Vulcanizate

### Product Description

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.

### General

Applications	▪ Automotive - Grips	▪ Automotive - Interior	▪ Automotive - Interior Mat
Uses	▪ Automotive Applications	▪ Automotive Interior Parts	▪ Outdoor Applications
RoHS Compliance	▪ RoHS Compliant		
Automotive Specifications	▪ CHRYSLER MS-AR-100 DMV2- HF	▪ FORD WSS-M2D510-A8	▪ GM GMW15702-250024
Color	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding	▪ Multi Injection Molding	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.920	0.920	ASTM D792
Density	0.920 g/cm <sup>3</sup>	0.920 g/cm <sup>3</sup>	ISO 1183

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness			ISO 868
Shore A, 15 sec, 73°F (23°C)	84	84	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	595 psi	4.10 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	595 psi	4.10 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	1310 psi	9.00 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	1310 psi	9.00 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	500 %	500 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	500 %	500 %	ISO 37

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Brittleness Temperature	-74 °F	-59 °C	ASTM D746
Brittleness Temperature	-74 °F	-59 °C	ISO 812

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	3.0 hr	3.0 hr

### Injection Notes

Santoprene™ TPV is incompatible with acetal and PVC. For more information regarding processing and mold design, please consult our Injection Molding Guide.

