

Santoprene™ 8221-55M300

Thermoplastic Vulcanizate

Product Description

A soft, 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.
- Recommended for applications requiring 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 AMV2-HF | ▪ FORD WSS-M2D510-A5 | ▪ GM GMW15816 Type 4 |
| 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 | 0.930 | 0.930 | ASTM D792 |
| Density | 0.930 g/cm ³ | 0.930 g/cm ³ | ISO 1183 |

| Hardness | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Shore Hardness | | | ISO 868 |
| Shore A, 15 sec, 73°F (23°C) | 52 | 52 | |

| Elastomers | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------------------------------|-------------------------|--------------------|---------------|
| Tensile Stress at 100% - Across Flow (73°F (23°C)) | 218 psi | 1.50 MPa | ASTM D412 |
| Tensile Stress at 100% - Across Flow (73°F (23°C)) | 218 psi | 1.50 MPa | ISO 37 |
| Tensile Strength at Break - Across Flow (73°F (23°C)) | 580 psi | 4.00 MPa | ASTM D412 |
| Tensile Stress at Break - Across Flow (73°F (23°C)) | 580 psi | 4.00 MPa | ISO 37 |
| Elongation at Break - Across Flow (73°F (23°C)) | 350 % | 350 % | ASTM D412 |
| Tensile Strain at Break - Across Flow (73°F (23°C)) | 350 % | 350 % | ISO 37 |

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

