

Santoprene™ 691-65W175

Thermoplastic Vulcanizate

Product Description

A soft, colorable thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for thin wall, architectural glazing and sealing applications. This grade of Santoprene TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion or thermoforming. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Recommended for glazing and sealing applications.
- Designed for extruding thin wall sections with excellent definition (down to 0.33 mm [0.013"] radius) and to maximize run length with minimal build-up of material on screen packs or narrow sections of dies.
- Recommended for applications requiring excellent ozone resistance.
- Recommended for applications requiring excellent flex fatigue resistance.

General

Applications	<ul style="list-style-type: none"> ▪ Consumer - Packaging ▪ Industrial - Expansion Joints ▪ Industrial - Rail Pads and Rail Boots ▪ Industrial - Residential Window and Door Seals ▪ Industrial - Water Stops for Containment Structures 		
RoHS Compliance	▪ RoHS Compliant		
Color	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	<ul style="list-style-type: none"> ▪ Coextrusion ▪ Extrusion 	<ul style="list-style-type: none"> ▪ Profile Extrusion ▪ Sheet Extrusion 	▪ Thermoforming

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density / Specific Gravity	0.970	0.970	ASTM D792
Density	0.970 g/cm ³	0.970 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)	70	70	

Elastomers	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at 100% - Across Flow (73°F (23°C))	392 psi	2.70 MPa	ASTM D412
Tensile Stress at 100% - Across Flow (73°F (23°C))	392 psi	2.70 MPa	ISO 37
Tensile Strength at Break - Across Flow (73°F (23°C))	899 psi	6.20 MPa	ASTM D412
Tensile Stress at Break - Across Flow (73°F (23°C))	899 psi	6.20 MPa	ISO 37
Elongation at Break - Across Flow (73°F (23°C))	490 %	490 %	ASTM D412
Tensile Strain at Break - Across Flow (73°F (23°C))	490 %	490 %	ISO 37

