

SANTOPRENE™ 691-65W175 - TPV

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.

Characteristics

Applications	Consumer - Packaging, Industrial - Expansion Joints, Industrial - Rail Pads and Rail Boots, Industrial - Residential Window and Door Seals, Industrial - Water Stops for Containment Structures
Color	Natural color
Delivery Form	Pellets
Processing	Coextrusion, Extrusion, Profile extrusion, Sheet extrusion, Thermoforming

Physical properties	Value	Unit	Test Standard
Density	60.6	lb/ft ³	ASTM D792
Density	60.6	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	70	ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	392	psi	ASTM D412
Tensile stress at 100%, perpendicular	392	psi	ISO 37
Tensile strength at break elast, perpendicular	899	psi	ASTM D412
Tensile stress at break, perpendicular	899	psi	ISO 37
Elongation at break elast, perpendicular	490	%	ASTM D412
Tensile strain at break, perpendicular	490	%	ISO 37

Other text information

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. Do not exceed 15% drawdown.