

SANTOPRENE™ 691-73W175 - 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

Color	Natural color
Delivery Form	Pellets
Processing	Coextrusion, Extrusion, Profile extrusion, Sheet extrusion, Thermoforming

Physical properties	Value	Unit	Test Standard
Density	59.9	lb/ft ³	ASTM D792
Density	59.9	lb/ft ³	ISO 1183

Hardness	Value	Unit
Shore A hardness-TPE, 15s	78	
		ISO 868

Mechanical properties	Value	Unit	Test Standard
Tensile stress at 100%, perpendicular	493	psi	ASTM D412
Tensile stress at 100%, perpendicular	493	psi	ISO 37
Tensile strength at break elast, perpendicular	1200	psi	ASTM D412
Tensile stress at break, perpendicular	1200	psi	ISO 37
Elongation at break elast, perpendicular	465	%	ASTM D412
Tensile strain at break, perpendicular	465	%	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.