

SANTOPRENE[®] 691-73W175

SANTOPRENE®

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.

Product information				
Resin Identification		TPV		ISO 1043
Part Marking Code		>TPV<		ISO 11469
Typical mechanical properties				
Tensile stress at 100% elongation, perpendicular			MPa	ISO 37
Tensile stress at break, perpendicula			MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular Shore A hardness, 15s		465 78	%	ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868
		70		
Physical/Other properties				
Density		960	kg/m³	ISO 1183
Characteristics				
Characteristics				
Processing	Extrusion, Sheet Extrusion, Coextrusion, Thermoforming			
Delivery form	Pellets			
Additional information				
Injection molding	Holding pressure should be about 50 to 75% of the actual injection pressure.			
	A high screw RPM (10	0 to 200) is	recommended.	
	Back pressure is not always needed, however, a back pressure of 0.3 to 0.7 MPa			
	may be used to ensure a homogeneous melt and maintain a consistent shot size. A higher back pressure is normally employed when using masterbatches.			
A higher back pressure is normally employed when using masterba				וומסופו שמוכוופס.
Processing Notes				
	Desiccant drying for 3 hours at 80°C (180°F) is recommended.			
Santoprene® TPV has a wide temperature processing windo				
	230 °C (350 to 450 °F) and is incompatible with acetal and PVC. Do not exceed 15% drawdown			
	15% drawdown.			





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