

SANTOPRENE® 691-73W175

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.

Typical mechanical properties

Stress at 100% elongation	3.4 MPa	ISO 527-1/-2 or ISO 37
Stress at break	8.3 MPa	ISO 527-1/-2 or ISO 37
Elongation at break	465 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	78	ISO 48-4 / ISO 868

Other properties

Density	960 kg/m ³	ISO 1183
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Processing Texts

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.
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