

SANTOPRENE® 591-65W175

Santoprene® 591-65W175 is a soft, black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for thin wall, architectural glazing and sealing applications in industry and consumer segments. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion, thermoforming. It is polyolefin based and completely recyclable.

Key Features

- Recommended for glazing and sealing applications in industry and consumer segments.
- Excellent resistance to compression set.
- Designed for extruding thin sections with excellent definition (down to 0.33 mm [0.013"] radius). Long runs with minimal build-up of material on screen packs or narrow sections die sections.

Typical mechanical properties

Stress at 100% elongation	426 psi	ISO 527-1/-2 or ISO 37
Stress at break	1020 psi	ISO 527-1/-2 or ISO 37
Elongation at break	439 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	73	ISO 48-4 / ISO 868
Compression set at 70°C, 24h	31 %	ISO 815
Compression Set, 125°C, 70h	45 %	ISO 815

Other properties

Density	514 lb/gal	ISO 1183
---------	------------	----------

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.
------------------	--

