

SANTOPRENE® 163-40F500 (PRELIMINARY)

A black thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for coextrusion applications, particularly for the static foot of automotive weatherseal systems like glass run channels. 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 coextruded applications not exposed to UV light.
- Recommended for applications requiring excellent ozone resistance.
- Designed to maximize run length with minimal build-up of material on screen packs or narrow sections of dies.

Typical mechanical properties

Stress at 100% elongation	1410 psi	ISO 527-1/-2 or ISO 37
Stress at break	2610 psi	ISO 527-1/-2 or ISO 37
Elongation at break	590 %	ISO 527-1/-2 or ISO 37
Shore D hardness, 15s	43	ISO 48-4 / ISO 868

Other properties

Density	490 lb/gal	ISO 1183
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Extrusion

Drying Temperature	180 °F
Drying Time, Dehumidified Dryer	3 h
Melt Temperature Range	351 - 399 °F

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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