

SANTOPRENE® 121-60E400

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance, and is designed for thin wall or complex profile extrusion applications. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for extrusion. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Excellent elasticity and compression set
- Recommended for applications requiring excellent flex fatigue resistance
- Excellent ozone resistance
- Designed for improved UV resistance
- 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

Typical mechanical properties

Stress at 100% elongation	348 psi	ISO 527-1/-2 or ISO 37
Stress at break	928 psi	ISO 527-1/-2 or ISO 37
Elongation at break	436 %	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	64	ISO 48-4 / ISO 868
Compression set at 70°C, 24h	20.5 %	ISO 815
Compression Set, 125°C, 70h	46 %	ISO 815

Other properties

Density	511 lb/gal	ISO 1183
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Injection

Melt Temperature Optimum	419 °F	Internal
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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.

Other Approvals

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OEM	Specification
Renault	FRM 18-27-208 /---
VW Group	VW50123

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