

SANTOPRENE® 121-55W241

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

Key Features

- Used in glass encapsulation applications
- Used in sealing applications
- Recommended for applications requiring superior part surface appearance
- Designed to be injected at lower molding temperatures or at lower injection pressures

Typical mechanical properties

Stress at 100% elongation	2 MPa	ISO 527-1/-2 or ISO 37
Stress at break	4.8 MPa	ISO 527-1/-2 or ISO 37
Elongation at break	480 %	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-63 °C	ASTM D 746
Low temperature brittleness	-63 °C	ISO 812
Shore A hardness, 15s	59	ISO 48-4 / ISO 868
Compression set at 23 °C	29 %	ISO 815
Compression Set, 125 °C, 70h	56 %	ISO 815

Other properties

Density	920 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.
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Other Approvals

Other Approvals	OEM	Specification
	Hyundai	MS220-05, Type J

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