

SANTOPRENE® 123-40M100 DEV (PRELIMINARY)

A hard, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material combines good physical properties and chemical resistance for use in a wide range of 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

- · Recommended for applications requiring excellent flex fatigue resistance
- Excellent ozone resistance
- Designed for improved UV resistance

Typical mechanical properties

Stress at 100% elongation	1420		ISO 527-1/-2 or ISO 37
Stress at break	2070	•	ISO 527-1/-2 or ISO 37
Elongation at break	560		ISO 527-1/-2 or ISO 37
Brittleness Temperature	-72		ASTM D 746
Low temperature brittleness	-72.4	°F	ISO 812
Shore D hardness, 15s	43		ISO 48-4 / ISO 868
Shore D hardness, 168h at 150°C	2		ISO 48-4 / ISO 868
Electrical properties			
Electric Strength, Short Time, 2mm	787	kV/in	ASTM D 149
Other properties			
Density	482	lb/gal	ISO 1183
Injection			
Drying Temperature	180	°F	
Drying Time, Dehumidified Dryer		h.	
Processing Moisture Content	0.08		
Max. regrind level	20		
Max. mould temperature	50 - 126		
Vent depth		mil	
Back pressure	50 - 99.9	psi	
Injection speed	fast	1	
Extrusion			
Drying Temperature	180	°F	
Drying Time, Dehumidified Dryer		h.	
Melt Temperature Range	410		
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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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