

SANTOPRENE[®] 211-45

A soft, colorable, versatile 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 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

- · Recommended for applications requiring excellent flex fatigue resistance.
- · Excellent ozone resistance.
- · UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component.
- · Used in sealing applications.

Typical mechanical properties

Stress at 100% elongation Stress at break Elongation at break Brittleness Temperature Low temperature brittleness Shore A hardness, 15s Shore A hardness change, after ageing Compression set at 23°C, 24h Compression Set, 125°C, 70h	3.5 340 -62 -62 49 1	°C °C %	ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ASTM D 746 ISO 812 ISO 48-4 / ISO 868 ISO 48-4 / ISO 868 ISO 815 ISO 815
Thermal properties RTI, electrical, 1.5mm RTI, strength, 1.5mm RTI, strength, 3mm	100 90 95	°C	UL 746B UL 746B UL 746B
Flammability Burning Behav. at thickness h Thickness tested UL recognition		class mm	UL 94 UL 94 UL 94
Electrical properties Electric Strength, Short Time, 2mm	30	kV/mm	ASTM D 149
Other properties Density	960	kg/m³	ISO 1183



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Injection

82	°C
3	h
0.08	%
20	%
10 - 52	°C
25	μm
0.345 - 0.689	MPa
fast	
	3 0.08 20 10 - 52 25 0.345 - 0.689

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. An SPI/SPE #3 finish is recommended (do not polish).

Other Approvals

Other Approvals

OEM	Specification	Additional Information
Stellantis - Chrysler	MS-AR-100 BMN	
Ford	WSD-M2D378-A4	

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