

SANTOPRENE® 8221-60

SANTOPRENE®

A soft, colorable, 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 or blow molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

· UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component.

- · Neutral, easy coloring formulation.
- Used in sealing applications.

Product information

Resin Identification Part Marking Code	TPV >TPV<		ISO 1043 ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular Stress at break, perpendicular Elongation at break, perpendicular Shore A hardness, 15s Compression set, 70°C, 24h Compression set, 125°C, 70h		%	ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ISO 48-4 / ISO 868 ISO 815 ISO 815
Thermal properties			
RTI, electrical, 1.5mm RTI, electrical, 3.0mm RTI, strength, 1.5mm RTI, strength, 3.0mm			UL 746B UL 746B UL 746B UL 746B
Specific Application Suitability			
Outdoor suitability	f1		UL 746C
Flammability			
Burning Behav. at thickness h Thickness tested UL recognition		class mm	IEC 60695-11-10 IEC 60695-11-10 UL 94
Electrical properties			
Relative permittivity, 60Hz	2.3		IEC 62631-2-1
Physical/Other properties			
Density	950	kg/m³	ISO 1183



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Injection

Drying Temperature	82	°C
Drying Time, Dehumidified Dryer	3	h
Processing Moisture Content	≤0.08	%
Max. regrind level	20	%
Min. mould temperature	24	°C
Max. mould temperature	52	°C
Back pressure	0.517	MPa
Extrusion		

Melt Temperature Range

179-216 °C

Additional information

Processing Notes

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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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