

SANTOPRENE® 8271-65

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A soft, colorable, specialty, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is designed for use in non fatty food contact applications. This grade of SantopreneTM 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

- This product, in principle, can be used in food contact applications in the USA (FDA). Migration or use limitations may apply.
- · Certified by NSF to NSF/ANSI Standard 51: Food Equipment Materials Plastics, materials and components used in food equipment.
- · UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component.
- · Recommended for applications requiring excellent flex fatigue resistance.
- · Non-hygroscopic product; requires little to no drying before processing.
- · Neutral, easy coloring formulation.

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 Brittleness Temperature Shore A hardness, 15s Compression set, 70°C, 24h	2.7 MPa 6.5 MPa 470 % -63 °C 69 32 %	ISO 37 ISO 527-1/-2 or ISO 37 ISO 527-1/-2 or ISO 37 ASTM D 746 ISO 48-4 / ISO 868 ISO 815
Thermal properties	<u> </u>	100 010
RTI, electrical, 1.5mm RTI, electrical, 3.0mm RTI, strength, 1.5mm RTI, strength, 3.0mm	100 °C 100 °C 85 °C 85 °C	UL 746B UL 746B UL 746B UL 746B
Flammability		
Burning Behav. at thickness h Thickness tested UL recognition	HB class 1.1 mm yes	IEC 60695-11-10 IEC 60695-11-10 UL 94
Physical/Other properties		
Density	950 kg/m ³	ISO 1183

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Injection

Max. regrind level 20 % Back pressure 0.517 MPa

Additional information

Processing Notes

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Desiccant drying for 3 hours at 80°C (180°F) can be performed if desired. SantopreneTM 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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