

ISO 1043

ISO 11469

SANTOPRENE® 8211-55B100

SANTOPRENE®

A soft, colorable, specialty, non-hygroscopic thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to bond to ABS, PS, PC, PMMA, ASA, PET and PPO/PS blends for applications where hard/soft combinations are required. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- · Designed for excellent adhesion onto ABS, PS, PC, PMMA and ASA (cold insert or 2K [two-shot] molding).
- Recommended for applications requiring superior part surface appearance.
- · Designed for soft touch applications.
- · UL listed: file #QMFZ2.E80017, Plastics Component; file #QMFZ8.E80017, Plastics Certified For Canada Component.
- · Adhesion values can vary according to type of ABS, PS, PC, PMMA, ASA or blends thereof, tool design and processing conditions.

TPV

>TPV<

Product information Resin Identification

Part Marking Code

Tart Marking Code	>11 V		100 11403
Typical mechanical properties			
Tensile stress at break, perpendicular	4.4	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	600	%	ISO 527-1/-2 or ISO 37
Shore A hardness, 15s	57		ISO 48-4 / ISO 868
Compression set, 125°C, 70h	55	%	ISO 815
Change in tensile strength, 100°C, 168h	-28	%	ISO 188
Change in tensile strength, 125°C, 168h	-61	%	ISO 188
Change in tensile strain at break, 100°C, 168h	-14	%	ISO 188
Change in tensile strain at break, 125°C, 168h	-70	%	ISO 188
Change in Shore A hardness, 100°C, 168h	-4		ISO 188
Change in Shore A hardness, 125°C, 168h	8		ISO 188
Flammability			

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	1.1	mm	IEC 60695-11-10
UL recognition	yes		UL 94
FMVSS Class	В		ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	45.1	mm/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	1040 kg/m ³	ISO 1183

Injection

Drying Recommended	yes	
Drying Temperature	70	°C
Drying Time, Dehumidified Dryer	≥3	h
Processing Moisture Content	≤0.08	%
Melt Temperature Optimum	200	°C

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Revised: 2025-07-02 Source: Celanese Materials Database



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Min. melt temperature	185	°C
Max. melt temperature	210	°C
Mold Temperature Optimum	35	°C
Min. mould temperature	20	°C
Max. mould temperature	50	°C

Characteristics

Processing Injection Moulding, Multi Injection Moulding, Coextrusion

Delivery form Pellets

Additional information

Processing Notes Processing Notes

Desiccant drying for 3 hours at $70\,^{\circ}\text{C}$ ($160\,^{\circ}\text{F}$) can be performed if desired. For two-shot injection molding, recommended melt temperature is 210 to 230 $\,^{\circ}\text{C}$ (410 to 445 $\,^{\circ}\text{F}$) with mold temperatures of 30 to $50\,^{\circ}\text{C}$ (90 to $125\,^{\circ}\text{F}$). For insert injection molding, recommended melt temperature is 230 to $250\,^{\circ}\text{C}$ (445 to 485 $\,^{\circ}\text{F}$) with mold temperatures of 25 to $50\,^{\circ}\text{C}$ (75 to $125\,^{\circ}\text{F}$). Because of its inherent nature to bond, this material may, on occasion, agglomerate from shipping and storage. Santoprene® TPV is incompatible with acetal and PVC.

Automotive

 OEM
 STANDARD

 BMW
 GS93042

 VW Group
 VW 50123

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