



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.

Product information

TPV	ISO 1043
>TPV<	ISO 11469
4.4 MPa	ISO 527-1/-2 or ISO 37
600 %	ISO 527-1/-2 or ISO 37
57	ISO 48-4 / ISO 868
55 %	ISO 815
HB class	IEC 60695-11-10
1.1 mm	IEC 60695-11-10
yes	UL 94
42 mm/min	ISO 3795 (FMVSS 302)
1040 kg/m ³	ISO 1183
	>TPV< 4.4 MPa 600 % 57 55 % HB class 1.1 mm yes 42 mm/min

Injection

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

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Characteristics

Processing Injection Moulding, Multi Injection Moulding, Coextrusion

Delivery form Pellets

Additional information

Non Standard Data

Property Name	Condition	Value	Unit	Standard
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

Processing Notes

Processing Notes

Desiccant drying for 3 hours at 70°C (160°F) can be performed if desired. For two-shot injection molding, recommended melt temperature is 210 to 230°C (410 to 445°F) with mold temperatures of 30 to 50°C (90 to 125°F). For insert injection molding, recommended melt temperature is 230 to 250°C (445 to 485°F) with mold temperatures of 25 to 50°C (75 to 125°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.

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Automotive

 OEM
 STANDARD

 BMW
 GS93042

 VW Group
 VW 50123

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