

## ExxonMobil Santoprene® 8191-55B100 Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV)

### Material Notes:

A soft, black, 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 8000 TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding or extrusion. It is polyolefin based and completely recyclable. 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. Adhesion values can vary according to type of ABS, PS, PC, PMMA, ASA or blends thereof, tool design and processing conditions. Applications: Automotive – Grips, HVAC Flapper Door Seals and Interior Consumer – Electronics, Floor Care, Kitchen Tools, Power Tools, Writing Instruments and Consumer Applications Seals and Gaskets Soft Touch Grips Uses: Appliance Components Appliances Automotive Applications Automotive Under the Hood Bonding Cell Phones Consumer Applications Eyeglass Frames Flexible Grips Kitchenware Living Hinges Seals Sporting Goods Strain Relief Tie-Layer White Goods & Small Appliances Availability: Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America Information provided by ExxonMobil Chemical

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[http://www.lookpolymers.com/polymer\\_ExxonMobil-Santoprene-8191-55B100-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-8191-55B100-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	23°C; ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	49	49	Air at 212°F, 168 hr; ASTM D573
	61	61	Air at 257°F, 168 hr; ISO 868
	53 @Thickness 2.00 mm	53 @Thickness 0.0787 in	15 sec; ISO 868
Tensile Strength at Break	1.600 MPa	232.0 psi	Air at 257°F, 168 hr; ASTM D573
	2.954 MPa	428.4 psi	Air at 212°F, 168 hr; ASTM D573
	4.10 MPa	595 psi	Across Flow; ASTM D412
Tensile Stress	1.00 MPa @Strain 100 %	145 psi @Strain 100 %	Across Flow; ASTM D412
	180 %	180 %	257°F, 168 hr; ASTM D573
Elongation at Break	516 %	516 %	Air at 212°F, 168 hr; ASTM D573
	600 %	600 %	Across Flow; ASTM D412
	55 %	55 %	257°F, 70 hr; ASTM D395

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.10 mm	@Thickness 0.0433 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 229 °C	410 - 445 °F	For two-shot injection molding
	229 - 252 °C	445 - 485 °F	For insertion injection molding
Mold Temperature	23.9 - 51.7 °C	75.0 - 125 °F	For insertion injection molding
	32.2 - 51.7 °C	90.0 - 125 °F	For two-shot injection molding

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China