

ExxonMobil Santoprene® 8211-55B100 Thermoplastic Elastomer

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

Material Notes:

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 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. 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. EU and China RoHS compliant. Applications: Automotive – Grips, HVAC Flapper Door Seals, Interior, 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 Reliefs, Tie-Layer, White Goods & Small Appliances, Processing Method: Coextrusion, Injection Molding and Multi Injection Molding. 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-8211-55B100-Thermoplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	23°C; ASTM D792

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; ASTM D573
	53	53	15 sec; ISO 868
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength at Break	1.600 MPa	232.1 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	145 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	180 %	180 %	Air at 257°F, 168 hr; ASTM D573
	516 %	516 %	Air at 212°F, 168 hr; ASTM D573

Mechanical Properties	600 % Metric	600 % English	Across Flow; ASTM D412 Comments
Compression Set	55 %	55 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-47.0 °C	-52.6 °F	ASTM D746
Flammability, UL94	HB	HB	
	@Thickness 1.10 mm	@Thickness 0.0433 in	
	HB	HB	
	@Thickness 2.90 mm	@Thickness 0.114 in	

Processing Properties	Metric	English	Comments
Melt Temperature	98.9 - 110 °C	210 - 230 °F	For two-shot injection molding
	110 - 121 °C	230 - 250 °F	For insertion injection molding
Mold Temperature	25.0 - 50.0 °C	77.0 - 122 °F	

Descriptive Properties	Value	Comments
Color	Natural Color	
Form	Pellets	

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