

ExxonMobil Santoprene® 191-55PA Thermoplastic Elastomer (discontinued **)

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

Material Notes:

A soft, black, specialty thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. It is especially formulated to bond to PA-6 and blends thereof 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 completely recyclable. Key Features: Designed for excellent adhesion onto nylon-6 (insert or 2K [two-shot] molding) and nylon 6,6 (2K molding only). Adhesion values can vary according to type of nylon used, tool design and processing conditions. UL listed: file #QMFZ2.E80017, Plastics - Component; file #QMFZ8.E80017, Plastics Certified For Canada - Component. EU and China RoHS compliant. Applications: Automotive – Interior, Plugs, Bumpers, Grommets, Clips, Seals, Gaskets, Electronics, Kitchen Tools, Power Tools and Consumer Applications. Seals and Gaskets, Soft Touch Grips. Uses: Appliance Components, Appliances, Automotive Applications, Automotive Under the Hood, Bonding, Cell Phones, Consumer Applications, Cookware Handles, Eyeglass Frames, Flexible Grips, Kitchenware, Living Hinges, Seals, Sporting Goods, Strain Reliefs, 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

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-191-55PA-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	Air at 212°F, 168 hr; ASTM D573
	52	52	Air at 158°F, 168 hr; ASTM D573
	53	53	Air at 275°F, 168 hr; ASTM D573
	55	55	15 sec; ISO 868
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Tensile Strength at Break	2.404 MPa	348.6 psi	Air at 275°F, 168 hr; ASTM D573
	2.75 MPa	399 psi	Air at 158°F, 168 hr; ASTM D573
	2.867 MPa	415.8 psi	Air at 212°F, 168 hr; ASTM D573
	2.90 MPa	420 psi	Across Flow; ASTM D412
Tensile Stress	1.60 MPa	232 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	234.9 %	234.9 %	Air at 158°F, 168 hr; ASTM D573
	261 %	261 %	Air at 212°F, 168 hr; ASTM D573

Mechanical Properties	Metric	English	Comments
	272.6 %	272.6 %	Air at 275 °F, 168 hr; ASTM D573
	290 %	290 %	Across Flow; ASTM D412
Tear Strength	14.0 kN/m	80.0 pli	73°F, Die C; ASTM D624
Compression Set	40 %	40 %	158°F, 22 hr; ASTM D395
	58 %	58 %	257°F, 70 hr; ASTM D395

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	100 °C	212 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746
Flammability, UL94	HB	HB	
	@Thickness 1.10 mm	@Thickness 0.0433 in	
	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	

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