

ExxonMobil Santoprene® 191-85PA 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 soft touch applications. 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. EU and China RoHS compliant Applications: Automotive-Plugs, Bumpers, Grommets, Clips, Electronics, Kitchen Tools, Power Tools and Consumer Applications 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-191-85PA-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	Air at 158°F, 168 hr; ASTM D573
	82	82	Air at 212°F, 168 hr; ASTM D573
	83	83	Air at 275°F, 168 hr; ASTM D573
	85	85	15 sec; ISO 868
Tensile Strength at Break	@Thickness 2.00 mm	@Thickness 0.0787 in	
	6.9141 MPa	1002.8 psi	Air at 275°F, 168 hr; ASTM D573
	7.4401 MPa	1079.1 psi	Air at 212°F, 168 hr; ASTM D573
	7.52 MPa	1090 psi	Across Flow; ASTM D412
Tensile Stress	7.7407 MPa	1122.7 psi	Air at 158°F, 168 hr; ASTM D573
	4.50 MPa	653 psi	Across Flow; ASTM D412
	@Strain 100 %	@Strain 100 %	
Elongation at Break	336.2 %	336.2 %	275°F, 168 hr; ASTM D573
	348.5 %	348.5 %	212°F, 168 hr; ASTM D573

Mechanical Properties	377.2 % Metric	377.2 % English	Air at 158°F, 168 hr; ASTM D573 Comments
	410 %	410 %	Across Flow; ASTM D412
Tear Strength	29.1 kN/m	166 pli	73°F, Die C; ASTM D624
Compression Set	27 %	27 %	158°F, 22 hr; ASTM D395
	56 %	56 %	257°F, 70 hr; ASTM D395

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	

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