

ExxonMobil Santoprene® 101-55W185 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. This material combines good fluid resistance and physical properties that meet ASTM F 477 for low head pipe seal applications and complies with EN 681-2:2000. 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. Recommended for applications requiring excellent flex fatigue resistance Recommended for applications requiring excellent ozone resistance Good resistance to compression set. Information provided by Advanced Elastomer Systems

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Santoprene-101-55W185-Thermoplastic-Elastomer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	23°C; ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56	56	.12 in; ASTM D2240
	56	56	Air at 158°F, 96 hr; ASTM D573
Tensile Strength at Break	4.96 MPa	720 psi	Air at 158°F, 96 hr; ASTM D573
	5.17 MPa	750 psi	Across Flow; ASTM D412
Tensile Strength, Ultimate	2.00 MPa	290 psi	Across Flow; ASTM D412
	Elongation at Break	368.6 %	368.6 %
		380 %	380 %
Tear Strength	8.94 kN/m	51.0 pli	212°F, Die C; ASTM D624
	28.9 kN/m	165 pli	73°C, Die C; ASTM D624
Compression Set	25 %	25 %	158°F, 22 hr; ASTM D395

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-61.1 °C	-78.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	175 - 230 °C	347 - 446 °F	

Descriptive Properties	Value	Comments
Change in Mass in IRM 903 Oil at 257°F for 70 hr	1.16	
Color	Black	
Form	Pellets	

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