

Advanced Elastomer Systems Santoprene® 101-64 W175 Thermoplastic Rubber (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

A black thermoplastic general purpose elastomer designed for thin wall extrusion with good fluid resistance, formulated to replace thermoset elastomers such as EPDM, polychloroprene, and chlorosulfonated polyethylene. It can be processed using extrusion or other melt processing techniques. Key Features: Flame resistance HB rating; Designed for thin wall extrusion applications; Continuous temperature rating 1000 hrs. @ 135°C (275°F); Excellent flex fatigue resistance; Excellent ozone resistance. Additional processing comments: This thermoplastic rubber is a shear-dependent material that can be processed on conventional thermoplastic equipment for injection molding, extrusion, or blow molding. For extrusion, a general purpose screw with a compression ratio of 2.5 to 3.0 is recommended. Material can be recycled. SANTOPRENE rubber is incompatible with acetal and PVC. Values below are for injection molded plaques, side gated, 82.6 mm x 117.5 mm x 3.0 mm. Tensile properties measured across flow. Data provided by Advanced Elastomer Systems. Advanced Elastomer Systems is now a part of ExxonMobil. This grade was removed from the Advanced Elastomers Systems standard product line before the ExxonMobil acquisition.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Santoprene-101-64-W175-Thermoplastic-Rubber-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	TPE-0105 (ASTM D792)

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	5 Second; TPE-0169 (ASTM D 2240)
Tensile Strength, Ultimate	6.90 MPa	1000 psi	TPE-0153 (ASTM D 412)
Elongation at Break	400 %	400 %	TPE-0153 (ASTM D 412)
100% Modulus	0.00230 GPa	0.334 ksi	TPE-0153 (ASTM D 412)
Graves Tear Strength	10.2 kN/m	58.2 pli	TPE-0056 (ASTM D 624)
	@Temperature 100 °C	@Temperature 212 °F	
	24.5 kN/m	140 pli	TPE-0056 (ASTM D 624)
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Compression Set	23 %	23 %	23°C, 168 hrs.; TPE-0016 (ASTM D 412)
	36 %	36 %	168 hrs.; TPE-0016 (ASTM D 412)
	@Temperature 100 °C	@Temperature 212 °F	
Tensile Set	10 %	10 %	23°C, 168 hrs.; TPE-0053 (ASTM D 412)

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 °C	275 °F	Continuous temperature Rating, 1000 hours
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	TPE-0089 (ASTM D 746)
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 232 °C	351 - 450 °F	
Drying Temperature	82.0 °C	180 °F	Desiccant drying for 3 hours recommended
Dry Time	3 hour	3 hour	

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