

Santoprene™ 101-55

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, black, universal thermoplastic vulcanized elastomer (T PV) in the thermoplastic elastomer (TPE) series. This material has good physical properties and chemical resistance at the same time, and is suitable for a wide range of fields. This brand of Sanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic injection molding or extrusion molding equipment. This is a polyolefin-based material that can be recycled in the production process.

General Information	
UL YellowCard	E80017-250494
Features	Good dimensional stability
	Low compressive deformability
	Insulation
	Recyclable materials
	Good electrical performance
	Good creep resistance
	Good heat aging resistance
	Ozone resistance
	Good chemical resistance
	Fatigue resistance
Uses	Electrical components
	Washer
	Diaphragm
	Pipe fittings
	Home appliance components
	Seals
	Parts under the hood of a car
	Application in Automobile Field
	Consumer goods application field
Agency Ratings	UL QMFZ2
	UL QMFZ8
RoHS Compliance	RoHS compliance
UL File Number	E80017
Appearance	Black
Forms	Particle
Processing Method	Multiple injection molding
	Co-extrusion molding

Extrusion
 Sheet extrusion molding
 Profile extrusion molding
 Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.968	g/cm ³	ASTM D792
--	0.970	g/cm ³	ISO 1183
Detergent Resistance	f4		UL 2157
Detergent Resistance	f3		UL 749
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 23°C, 2.00mm)	59		ISO 868
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress - Across Flow (100% Strain, 23°C)	2.10	MPa	ASTM D412, ISO 37
Tensile Strength - Across Flow (Break, 23°C)	5.20	MPa	ASTM D412, ISO 37
Tensile Elongation - Across Flow (Break, 23°C)	400	%	ASTM D412, ISO 37
Tear Strength - Across Flow			
23°C ¹	16.0	kN/m	ASTM D624
23°C ²	16	kN/m	ISO 34-1
Compression Set			
70°C, 22 hr ³	22	%	ASTM D395B
125°C, 70 hr ⁴	38	%	ASTM D395B
70°C, 22 hr ⁵	22	%	ISO 815
125°C, 70 hr ⁶	38	%	ISO 815
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (150°C, 168 hr)	-7.0	%	ASTM D573, ISO 188
Change in Ultimate Elongation in Air (150°C, 168 hr)	13	%	ASTM D573, ISO 188
Change in Durometer Hardness in Air (Shore A, 150°C, 168 hr)	3.0		ASTM D573, ISO 188
Change in Tensile Strength			
5°C, 166 hr, in Freon® 11 in	0.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in 10% zinc chloride	2.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in 1-propanol	8.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in pyridine	2.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in n-butyl acrylate	16	%	ASTM D471, ISO 1817
23°C, 166 hr, in dimethylformamide	-4.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in glycerol	-5.0	%	ASTM D471, ISO 1817

23°C, 166 hr, in seawater	3.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in reference fuel A	-9.0	%	ASTM D471
23°C, 166 hr, in reference fuel C	-25	%	ASTM D471, ISO 1817
23°C, 166 hr, in lithium-based grease	-9.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in dioctyl phthalate	11	%	ASTM D471, ISO 1817
23°C, 166 hr, in turpentine	-27	%	ASTM D471, ISO 1817
23°C, 166 hr, in bromobenzene	-30	%	ASTM D471, ISO 1817
23°C, 166 hr, in hydraulic brake fluid	-6.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in ether	3.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in n-hexane	14	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	-9.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 15% sodium chloride	-10	%	ASTM D471, ISO 1817
23°C, 168 hr, in 2.5% detergent (Tide)	-19	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	-9.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 95% ethanol	-7.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 98% sulfuric acid	-5.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in acetic acid	-13	%	ASTM D471, ISO 1817
23°C, 168 hr, in cyclohexane	15	%	ASTM D471, ISO 1817
23°C, 168 hr, in methyl ethyl ketone	31	%	ASTM D471, ISO 1817
23°C, 168 hr, in isopropanol	12	%	ASTM D471, ISO 1817
23°C, 168 hr, in trichloroethylene	39	%	ASTM D471, ISO 1817
100°C, 166 hr, in ASTM #1 oil	-13	%	ASTM D471, ISO 1817
100°C, 166 hr, in lithium grease	-25	%	ASTM D471, ISO 1817
100°C, 168 hr, in IRM 903 oil	-40	%	ASTM D471, ISO 1817
100°C, 168 hr, in deionized water	-11	%	ASTM D471, ISO 1817
125°C, 70 hr, in IRM 903 oil	-8.0	%	ASTM D471, ISO 1817
125°C, 166 hr, in Pydraul® In 312	-19	%	ASTM D471, ISO 1817
125°C, 166 hr, in Sunvis® In 706 liquid	-30	%	ASTM D471, ISO 1817
125°C, 166 hr, in Ucon® 50HB5100	-2.0	%	ASTM D471, ISO 1817
125°C, 166 hr, in Ucon® In CC732	-14	%	ASTM D471, ISO 1817
125°C, 166 hr, in power steering fluid	-33	%	ASTM D471, ISO 1817
125°C, 166 hr, in antifreeze, 50/50 ethylene glycol (Prestone®)/Water	-8.0	%	ASTM D471, ISO 1817
125°C, 166 hr, in automatic transmission fluid	-46	%	ASTM D471, ISO 1817
125°C, 168 hr, in ASTM #1 oil	-29	%	ASTM D471, ISO 1817
125°C, 168 hr, in IRM 903 oil	-43	%	ASTM D471, ISO 1817
125°C, 1000 hr, in antifreeze, 50/50V/V/water	-7.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in reference fuel A (isooctane)	-9.0	%	ISO 1817
Change in Ultimate Elongation			
5°C, 166 hr, in Freon® 11 in	-15	%	ASTM D471, ISO 1817

23°C, 166 hr, in 10% zinc chloride	9.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in 1-propanol	24	%	ASTM D471, ISO 1817
23°C, 166 hr, in pyridine	21	%	ASTM D471, ISO 1817
23°C, 166 hr, in n-butyl acrylate	27	%	ASTM D471, ISO 1817
23°C, 166 hr, in dimethylformamide	3.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in glycerol	0.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in seawater	9.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in reference fuel A	-15	%	ASTM D471
23°C, 166 hr, in reference fuel C	-32	%	ASTM D471, ISO 1817
23°C, 166 hr, in lithium-based grease	-9.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in dioctyl phthalate	21	%	ASTM D471, ISO 1817
23°C, 166 hr, in turpentine	-32	%	ASTM D471, ISO 1817
23°C, 166 hr, in bromobenzene	-35	%	ASTM D471, ISO 1817
23°C, 166 hr, in hydraulic brake fluid	3.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in ether	-3.0	%	ASTM D471, ISO 1817
23°C, 166 hr, in n-hexane	27	%	ASTM D471, ISO 1817
23°C, 168 hr, in 10% hydrochloric acid	0.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 15% sodium chloride	-5.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 2.5% detergent (Tide)	-15	%	ASTM D471, ISO 1817
23°C, 168 hr, in 50% sodium hydroxide	0.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 95% ethanol	3.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in 98% sulfuric acid	-18	%	ASTM D471, ISO 1817
23°C, 168 hr, in acetic acid	-8.0	%	ASTM D471, ISO 1817
23°C, 168 hr, in cyclohexane	28	%	ASTM D471, ISO 1817
23°C, 168 hr, in methyl ethyl ketone	51	%	ASTM D471, ISO 1817
23°C, 168 hr, in isopropanol	28	%	ASTM D471, ISO 1817
23°C, 168 hr, in trichloroethylene	36	%	ASTM D471, ISO 1817
100°C, 166 hr, in ASTM #1 oil	-18	%	ASTM D471, ISO 1817
100°C, 166 hr, in lithium grease	-26	%	ASTM D471, ISO 1817
100°C, 168 hr, in IRM 903 oil	-56	%	ASTM D471, ISO 1817
100°C, 168 hr, in deionized water	-10	%	ASTM D471, ISO 1817
125°C, 70 hr, in IRM 903 oil	-48	%	ASTM D471, ISO 1817
125°C, 166 hr, in Pydraul® In 312	-15	%	ASTM D471, ISO 1817
125°C, 166 hr, in Sunvis® In 706 liquid	-35	%	ASTM D471, ISO 1817
125°C, 166 hr, in Ucon® 50HB5100	9.0	%	ASTM D471, ISO 1817
125°C, 166 hr, in Ucon® In CC732	-9.0	%	ASTM D471, ISO 1817
125°C, 166 hr, in power steering fluid	-41	%	ASTM D471, ISO 1817
125°C, 166 hr, in antifreeze, 50/50 ethylene glycol (Prestone®)/Water	-6.0	%	ASTM D471, ISO 1817
125°C, 166 hr, in automatic transmission fluid	-53	%	ASTM D471, ISO 1817
125°C, 168 hr, in ASTM #1 oil	-43	%	ASTM D471, ISO 1817
125°C, 168 hr, in IRM 903 oil	-56	%	ASTM D471, ISO 1817

125°C, 1000 hr, in antifreeze, 50/50V/V/water	-21	%	ASTM D471, ISO 1817
23°C, 166 hr, in reference fuel A (isooctane)	-15	%	ISO 1817
Change in Durometer Hardness			
Support A, 5°C, 166 hr, in Freon® 11 in	-15		ASTM D471
Support A, 23°C, 166 hr, in 10% zinc chloride	-2.0		ASTM D471
Support A, 23°C, 166 hr, in 1-propanol	2.0		ASTM D471
Support A, 23°C, 166 hr, in pyridine	2.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in n-butyl acrylate	-1.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in dimethylformamide	-8.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in glycerin	-4.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in seawater	-1.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in reference fuel A	-13		ASTM D471
Support A, 23°C, 166 hr, in reference fuel C	-17		ASTM D471
Support A, 23°C, 166 hr, in lithium-based grease	-7.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in dioctyl phthalate	-1.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in turpentine	-16		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in bromobenzene	-15		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in hydraulic brake fluid	-3.0		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in ether	-12		ASTM D471, ISO 1817
Support A, 23°C, 166 hr, in n-hexane	-9.0		ASTM D471, ISO 1817
Support A, 23°C, 168 hr, in 10% hydrochloric acid	1.0		ASTM D471
Support A, 23°C, 168 hr, in 15% sodium chloride	2.0		ASTM D471
Support A, 23°C, 168 hr, in 2.5% detergent (Tide)	1.0		ASTM D471
Support A, 23°C, 168 hr, in 50% sodium hydroxide	1.0		ASTM D471
Support A, 23°C, 168 hr, in 95% ethanol	0.0		ASTM D471
Support A, 23°C, 168 hr, in 98% sulfuric acid	0.0		ASTM D471
Support A, 23°C, 168 hr, in acetic acid	-2.0		ASTM D471, ISO 1817
Support A, 23°C, 168 hr, in cyclohexane	-16		ASTM D471, ISO 1817
Support A, 23°C, 168 hr, in methyl ethyl ketone	9.0		ASTM D471, ISO 1817
Support A, 23°C, 168 hr, in isopropyl alcohol	4.0		ASTM D471, ISO 1817

Support A, 23°C, 168 hr, in trichloroethylene	-1.0	ASTM D471, ISO 1817
Support A, 100°C, 166 hr, in ASTM #1 oil	-12	ASTM D471
Support A, 100°C, 166 hr, in lithium-based grease	-14	ASTM D471, ISO 1817
Support A, 100°C, 168 hr, in IRM 903 oil	-22	ASTM D471
Support A, 100°C, 168 hr, in deionized water	-2.0	ASTM D471, ISO 1817
Support A, 125°C, 70 hr, in IRM 903 oil	-23	ASTM D471
Support A, 125°C, 166 hr, in Pydraul® In 312	-8.0	ASTM D471
Support a, 125°C, 166 hr, in Sunvis® In 706 liquid	-15	ASTM D471
Support A, 125°C, 166 hr, in Ucon® 50HB5100	2.0	ASTM D471
Support A, 125°C, 166 hr, in Ucon® In CC732	-8.0	ASTM D471
Support A, 125°C, 166 hr, in power steering fluid	-20	ASTM D471, ISO 1817
Support A, 125°C, 166 hr, in antifreeze, 50/50 ethylene glycol (Prestone®)/Water	-6.0	ASTM D471
Support A, 125°C, 166 hr, in automatic transmission fluid	-18	ASTM D471, ISO 1817
Support A, 125°C, 168 hr, in ASTM #1 oil	-17	ASTM D471
Support A, 125°C, 168 hr, in IRM 903 oil	-27	ASTM D471
Support A, 125°C, 1000 hr, in antifreeze, 50/50V/V/water	-4.0	ASTM D471, ISO 1817
Support A, 5°C, 166 hr, in Freon® 11 in	-15	ISO 1817
Support A, 23°C, 166 hr, in 10% zinc chloride	-2.0	ISO 1817
Support A, 23°C, 166 hr, in 1-propanol	2.0	ISO 1817
Support A, 23°C, 166 hr, in reference fuel A (isooctane)	-13	ISO 1817
Support A, 23°C, 166 hr, in reference fuel C (isooctane/toluene, 50/50)	-17	ISO 1817
Support A, 23°C, 168 hr, in 10% hydrochloric acid	1.0	ISO 1817
Support A, 23°C, 168 hr, in 15% sodium chloride	2.0	ISO 1817
Support A, 23°C, 168 hr, in 2.5% detergent (Tide)	1.0	ISO 1817
Support A, 23°C, 168 hr, in 50% sodium hydroxide	1.0	ISO 1817
Support A, 23°C, 168 hr, in 95% ethanol	0.0	ISO 1817
Support A, 23°C, 168 hr, in 98% sulfuric acid	0.0	ISO 1817
Support A, 100°C, 166 hr, in ASTM #1 oil	-12	ISO 1817
Support A, 100°C, 168 hr, in IRM 903 oil	-22	ISO 1817

Support A, 125°C, 70 hr, in IRM 903 oil	-23		ISO 1817
Support A, 125°C, 166 hr, in Pydraul® In 312	-8.0		ISO 1817
Support a, 125°C, 166 hr, in Sunvis® In 706 liquid	-15		ISO 1817
Support A, 125°C, 166 hr, in Ucon® 50HB5100	2.0		ISO 1817
Support A, 125°C, 166 hr, in Ucon® In CC732	-8.0		ISO 1817
Support A, 125°C, 166 hr, in antifreeze, 50/50 ethylene glycol (Prestone®)/Water	-6.0		ISO 1817
Support A, 125°C, 168 hr, in ASTM #1 oil	-17		ISO 1817
Support A, 125°C, 168 hr, in IRM 903 oil	-27		ISO 1817
Change in Mass			ASTM D471
5°C, 166 hr, in Freon® 11 in	140	%	ASTM D471
23°C, 166 hr, in 10% zinc chloride	0.40	%	ASTM D471
23°C, 166 hr, in 1-propanol	-16	%	ASTM D471
23°C, 166 hr, in pyridine	-16	%	ASTM D471
23°C, 166 hr, in n-butyl acrylate	-12	%	ASTM D471
23°C, 166 hr, in reference fuel A (isooctane)	37	%	ASTM D471
23°C, 166 hr, in dimethylformamide	4.5	%	ASTM D471
23°C, 166 hr, in glycerol	1.3	%	ASTM D471
23°C, 166 hr, in seawater	0.50	%	ASTM D471
23°C, 166 hr, in reference fuel C	69	%	ASTM D471
23°C, 166 hr, in lithium-based grease	12	%	ASTM D471
23°C, 166 hr, in dioctyl phthalate	-9.0	%	ASTM D471
23°C, 166 hr, in turpentine	84	%	ASTM D471
23°C, 166 hr, in bromobenzene	120	%	ASTM D471
23°C, 166 hr, in hydraulic brake fluid	0.20	%	ASTM D471
23°C, 166 hr, in ether	13	%	ASTM D471
23°C, 166 hr, in n-hexane	-13	%	ASTM D471
23°C, 168 hr, in 10% hydrochloric acid	-0.40	%	ASTM D471
23°C, 168 hr, in 15% sodium chloride	0.20	%	ASTM D471
23°C, 168 hr, in 2.5% detergent (Tide)	0.90	%	ASTM D471
23°C, 168 hr, in 50% sodium hydroxide	-0.40	%	ASTM D471
23°C, 168 hr, in 95% ethanol	0.40	%	ASTM D471
23°C, 168 hr, in 98% sulfuric acid	4.5	%	ASTM D471
23°C, 168 hr, in acetic acid	7.0	%	ASTM D471
23°C, 168 hr, in cyclohexane	-3.7	%	ASTM D471
23°C, 168 hr, in methyl ethyl ketone	-31	%	ASTM D471
23°C, 168 hr, in isopropanol	-19	%	ASTM D471
23°C, 168 hr, in trichloroethylene	-14	%	ASTM D471
100°C, 166 hr, in ASTM #1 oil	35	%	ASTM D471

100°C, 166 hr, in lithium grease	43	%	ASTM D471
100°C, 168 hr, in IRM 903 oil	92	%	ASTM D471
100°C, 168 hr, in deionized water	6.6	%	ASTM D471
125°C, 166 hr, in Pydraul® In 312	18	%	ASTM D471
125°C, 166 hr, in Sunvis® In 706 liquid	58	%	ASTM D471
125°C, 166 hr, in Ucon® 50HB5100	-19	%	ASTM D471
125°C, 166 hr, in Ucon® In CC732	11	%	ASTM D471
125°C, 166 hr, in power steering fluid	72	%	ASTM D471
125°C, 166 hr, in antifreeze, 50/50 ethylene glycol (Prestone®)/Water	6.8	%	ASTM D471
125°C, 166 hr, in automatic transmission fluid	62	%	ASTM D471
125°C, 168 hr, in ASTM #1 oil	54	%	ASTM D471
125°C, 168 hr, in IRM 903 oil	99	%	ASTM D471
125°C, 1000 hr, in antifreeze, 50/50V/V/water	13	%	ASTM D471
Change in Mass			ISO 1817
23.0°C, 168 hr, in methyl ethyl ketone	-31	%	ISO 1817
23.0°C, 168 hr, in isopropanol	-19	%	ISO 1817
125°C, 166 hr, in Ucon® 50HB5100	-19	%	ISO 1817
23.0°C, 166 hr, in pyridine	-16	%	ISO 1817
23.0°C, 166 hr, in 1-propanol	-16	%	ISO 1817
23.0°C, 168 hr, in trichloroethylene	-14	%	ISO 1817
23.0°C, 166 hr, in n-hexane	-13	%	ISO 1817
23.0°C, 166 hr, in n-butyl acrylate	-12	%	ISO 1817
23.0°C, 166 hr, in dioctyl phthalate	-9.0	%	ISO 1817
23.0°C, 168 hr, in cyclohexane	-3.7	%	ISO 1817
23.0°C, 168 hr, in 50% sodium hydroxide	-0.40	%	ISO 1817
23.0°C, 168 hr, in 10% hydrochloric acid	-0.40	%	ISO 1817
23.0°C, 166 hr, in hydraulic brake fluid	0.20	%	ISO 1817
23.0°C, 168 hr, in 15% sodium chloride	0.20	%	ISO 1817
23.0°C, 168 hr, in 95% ethanol	0.40	%	ISO 1817
23.0°C, 166 hr, in 10% zinc chloride	0.40	%	ISO 1817
23.0°C, 166 hr, in seawater	0.50	%	ISO 1817
23.0°C, 168 hr, in 2.5% detergent (Tide)	0.90	%	ISO 1817
23.0°C, 166 hr, in glycerol	1.3	%	ISO 1817
23.0°C, 166 hr, in dimethylformamide	4.5	%	ISO 1817
23.0°C, 168 hr, in 98% sulfuric acid	4.5	%	ISO 1817
100°C, 168 hr, in deionized water	6.6	%	ISO 1817
125°C, 166 hr, in antifreeze, 50/50 ethylene glycol (Prestone®)/Water	6.8	%	ISO 1817
23.0°C, 168 hr, in acetic acid	7.0	%	ISO 1817
125°C, 166 hr, in Ucon® In CC732	11	%	ISO 1817

23.0°C, 166 hr, in lithium grease	12	%	ISO 1817
23.0°C, 166 hr, in ether	13	%	ISO 1817
125°C, 1000 hr, in antifreeze, 50/50V/V/water	13	%	ISO 1817
125°C, 166 hr, in Pydraul® In 312	18	%	ISO 1817
100°C, 166 hr, in ASTM #1 oil	35	%	ISO 1817
23.0°C, 166 hr, in reference fuel a	37	%	ISO 1817
100°C, 166 hr, in lithium grease	43	%	ISO 1817
125°C, 168 hr, in ASTM #1 oil	54	%	ISO 1817
125°C, 166 hr, in Sunvis® In 706 liquid	58	%	ISO 1817
125°C, 166 hr, in automatic transmission fluid	62	%	ISO 1817
23.0°C, 166 hr, in reference fuel c	69	%	ISO 1817
125°C, 166 hr, in power steering fluid	72	%	ISO 1817
23.0°C, 166 hr, in turpentine	84	%	ISO 1817
100°C, 168 hr, in IRM 903 oil	92	%	ISO 1817
125°C, 168 hr, in IRM 903 oil	99	%	ISO 1817
23.0°C, 166 hr, in bromobenzene	120	%	ISO 1817
5.00°C, 166 hr, in Freon® 11 in	140	%	ISO 1817
Change in Volume			
125°C, 70 hr, in IRM 903 oil	97	%	ASTM D471
125°C, 70 hr, in IRM 903 oil	97	%	ISO 1817
Continuous Upper Temperature Resistance (1008 hr)	135	°C	SAE J2236
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-60.0	°C	ASTM D746, ISO 812
RTI Elec	90.0	°C	UL 746
RTI			UL 746
1.00 mm	90.0	°C	UL 746
1.50 mm	90.0	°C	UL 746
3.00 mm	95.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (23°C, 2.00 mm)	27	kV/mm	ASTM D149
Dielectric Constant (23°C, 1.93 mm)	2.40		ASTM D150, IEC 60250
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Resistance to Ignition (HVAR)	PLC 6		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 1		UL 746
Hot-wire Ignition (HWI)			UL 746
1.00 mm	PLC 4		UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 3		UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.00 mm	HB		UL 94
1.50 mm	HB		UL 94
3.00 mm	HB		UL 94

Additional Information

如果适用,这是基于扇形浇口注塑成型的平板测试结果.拉伸强度,伸长率和拉伸应力沿垂直流动方向测定 - ISO 1 型,ASTM die C.25% 形变时的永久压缩变形.从埃克森美孚欧洲分支机构直接购买的所有产品都符合 REACH 法规. 对于埃克森美孚未进口至欧洲的产品,用户应自行评估其是否满足 REACH 法规.

Legal statement

未经埃克森美孚化工书面允许,这种产品包括其产品名称,不得在任何医疗应用领域予以使用或有关详细的产品监管信息,请联系客户服务.

Injection	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.080	%
Suggested Max Regrind	20	%
Rear Temperature	177	°C
Middle Temperature	182	°C
Front Temperature	182	°C
Nozzle Temperature	188 - 221	°C
Processing (Melt) Temp	193 - 232	°C
Mold Temperature	10.0 - 51.7	°C
Injection Rate	Fast	
Back Pressure	0.345 - 0.689	MPa
Screw Speed	100 - 200	rpm
Clamp Tonnage	4.1 - 6.9	kN/cm ²
Cushion	3.18 - 6.35	mm
Screw L/D Ratio	16.0:1.0 to 20.0:1.0	
Screw Compression Ratio	2.0:1.0 to 2.5:1.0	
Vent Depth	0.025	mm

Injection instructions

Santoprene TPV与乙缩醛和PVC不相容.更多关于加工和模具设计的信息,请查阅我们的《注射成型指南》.

Extrusion	Nominal Value	Unit
Drying Temperature	82.2	°C
Drying Time	3.0	hr
Melt Temperature	196	°C
Die Temperature	199	°C
Back Pressure	5.00 - 20.0	MPa

Extrusion instructions

Santoprene TPV与乙缩醛和PVC不相容.更多关于加工和模具设计的信息,请查阅我们的《挤出成型指南》.

NOTE

1. C mould

2.	Method B, right-angle specimen (cut)
3.	Type 1
4.	Type 1
5.	Type a
6.	Type a

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