

Santoprene 241-55 NSF-61

Santoprene NSF-61 grade is a Thermoplastic Elastomer (TPE) made from a cross link mixture of EPDM rubber and Polypropylene. This combination offers excellent flexibility and durability that are consistent with natural rubber. It is environmentally age resistant in both hot and cold extreme environments. Its excellent electrical properties make Santoprene the preferred sealing and isolating material over Neoprene and EPDM rubber. Santoprene NSF-61 materials are certified to meet the required specification for applications concerning potable water.

Engineering Data — 55A		
Physical	Nominal Values	Test
Specific Gravity	0.97-	ASTM D792

Elastomers	Nominal Values	Test
Tensile Stress @ 100%	290 psi	ASTM D412
Tensile Str @ Break Elast	638 psi	ASTM D412
Elongations @ Break Elast	330%	ASTM D412
Tear Strength	108 lb/in	ASTM D624
Tear Strength Temp	73.4 °F	-
Compression Set	23%	ASTM D395
Compression Set Temp	73.4 °F	-

Hardness	Nominal Values	Test
Durometer Hardness A	55 -	ASTM D2240
Durometer Scale	A Scale -	-
Durometer Test Thickness	0.118 in	-

Thermal	Nominal Values	Test
Continuous	-50 °F to 275 °F • 45 °C to 135 °C	-
Intermittent	-74 °F to 300 °F • 59 °C to 150 °C	-
Brittle Temperature	-76 °F	ASTM D746

Electrical	Nominal Values	Test
Dielectric Strength	500 V/mil	ASTM D149
Dielectrical Str. Thickness	125 mil	-
Dielectric Constant	2.3 -	ASTM D150
Arc Resistance	90 s	ASTM D495
Arc Resistance Thickness	0.125 in	-

Flammable	Nominal Values	Test
Flame Rating - UL, HB	-	UL 94

* Test results for the dielectric strength are based on tests performed on general purpose style 201-55 and would be expected to be the same for style 241-55 NSF.

* RoHS Compliant * Exxon Mobil Santoprene©

All technical advise and recommendation are rendered by Seller free of charge.

While based on data believed to be reliable, seller assumes no responsibility.

Santoprene 241-80 NSF-61

Santoprene NSF-61 grade is a Thermoplastic Elastomer (TPE) made from a cross link mixture of EPDM rubber and Polypropylene. This combination offers excellent flexibility and durability that are consistent with natural rubber. It is environmentally age resistant in both hot and cold extreme environments. Its excellent electrical properties make Santoprene the preferred sealing and isolating material over Neoprene and EPDM rubber. Santoprene NSF-61 materials are certified to meet the required specification for applications concerning potable water.

Engineering Data — 80A

Physical	Nominal Values	Test
Specific Gravity	1.24-	ASTM D792

Elastomers	Nominal Values	Test
Tensile Stress @ 100%	464 psi	ASTM D412
Tensile Str @ Break Elast	1040 psi	ASTM D412
Elongations @ Break Elast	410%	ASTM D412
Tear Strength	135 lb/in	ASTM D624
Tear Strength Temp	73.4 °F	-
Compression Set	27%	ASTM D395
Compression Set Temp	73.4 °F	-

Hardness	Nominal Values	Test
Durometer Hardness A	80 -	ASTM D2240
Durometer Scale	A Scale -	-

Thermal	Nominal Values	Test
Continuous	-50 °F to 275 °F • 45 °C to 135 °C	-
Intermittent	-74 °F to 300 °F • 59 °C to 150 °C	-
Brittle Temperature	-69 °F	ASTM D746

Electrical	Nominal Values	Test
Dielectric Strength	498 V/mil	ASTM D149
Dielectrical Str. Thickness	125 mil	-
Dielectric Constant	2.44 -	ASTM D150
Arc Resistance	90 s	ASTM D495

Flammable	Nominal Values	Test
Flame Rating - UL, HB	-	UL 94

* Test results for the dielectric strength are based on tests performed on general purpose style 201-80 and would be expected to be the same for style 241-80 NSF.

* RoHS Compliant * Exxon Mobil Santoprene©

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