

Santoprene® TPV



Thermoplastic vulcanizates (TPV) product grades finder

Santoprene® TPV is an engineered thermoplastic vulcanizate (TPV) created more than 40 years ago out of a simple concept to develop a ready-to-use material that behaves like a rubber but processes like a thermoplastic. A truly revolutionary product, it quickly became the acknowledged industry-standard for TPV. Santoprene TPV is used very successfully across many industries and applications including – Automotive and Electric Vehicles (EV), 5G Connectivity, Electronics and Electrical, Industrial, Consumer Goods, Oil and Gas, Medical, Healthcare and Pharmaceutical, Food and Potable Water (FDA and NSF grades).

- General purpose TPV grades >
- Enhanced colorability TPV grades >
- UV black TPV grades >
- UV natural TPV grades >
- Food, water and detergent resistant TPV grades >
- Flame retardant TPV grades >
- Healthcare, medical & pharmaceutical TPV grades >
- Building & construction sealing TPV grades >
- Bonding TPV grades >
- Specialty TPV & ECO-R grades >
- Talk to our expert >



Navigate

[Product Data Sheets >](#)

[Safety Data Sheets \(SDS\) >](#)

[UL® Yellow Cards >](#)

[Auto OEM Specification >](#)

[Certificates >](#)

Product finder

Automotive (interior)
 Automotive (exterior)
 Automotive (under hood)
 Building and construction
 Consumer goods
 Electrical
 Medical
 UL certified
 FDA approved
 NSF certified
 CSTB certified
 ISO 10993 or USP Class VI
 UV stabilized
 Low coefficient of friction (COF)
 Injection molding
 Extrusion
 Blow molding
 Shore 15 sec, 73°F (23°C)
 Hardness ISO 868
 Appearance
 Elongation at break elast at 23°C
 Tensile strength at break elast at 23°C
 Tensile at 100% elongation
 Compression set % 158°F (70°C), 22 hr, ASTM D395/ISO



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General purpose TPV grades

	Applications					Requirements					Processing			Hardness		Appearance	Properties				Uses
Santoprene TPV 101-55	•	•	•	•	•	•					•	•		A	60	Black	420	5.0	1.9	23	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 101-64	•	•	•	•	•	•					•	•		A	70	Black	454	6.5	2.8	25	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 101-73	•	•	•	•	•	•					•	•		A	78	Black	478	8.0	3.4	27	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 101-80	•	•	•	•	•	•					•	•	•	A	87	Black	526	10.4	4.6	36	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 101-87	•	•	•	•	•	•					•	•	•	A	94	Black	597	15.6	6.9	37	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 103-40	•	•	•	•	•	•					•	•	•	D	41	Black	610	20.7	9.0	54	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 103-50	•	•	•	•	•	•					•	•	•	D	51	Black				59	General purpose grades; extrusion and molding. Highest elastomeric properties
Santoprene TPV 111-35	•	•	•	•	•	•					•			A	38	Black	330	2.9	1.0		General purpose; extrusion and molding
Santoprene TPV 111-45	•	•	•	•	•	•					•			A	49	Black	340	3.5	1.4		General purpose; extrusion and molding
Santoprene TPV 211-45	•	•	•	•	•	•					•	•		A	49	Natural	340	3.5	1.4		General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 201-55	•	•	•	•	•	•					•	•		A	59	Natural	400	5.2	2.1	22	General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 201-64	•	•	•	•	•	•					•	•		A	69	Natural	450	7.0	2.6	18	General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 201-73	•	•	•	•	•	•					•	•		A	78	Natural	490	8.8	3.6	28	General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 201-80	•	•	•	•	•	•					•	•	•	A	86	Natural	540	11.1	4.7	41	General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 201-87	•	•	•	•	•	•					•	•	•	A	93	Natural	580	15.0	7.1	36	General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 203-40	•	•	•	•	•	•					•	•	•	D	41	Natural	610	20.7	9.0	54	General purpose; extrusion and molding; Highest elastomeric properties
Santoprene TPV 203-50	•	•	•	•	•	•					•	•	•	D	51	Natural				59	General purpose; extrusion and molding; Highest elastomeric properties

Enhanced colorability TPV grades

	Applications					Requirements					Processing			Hardness		Appearance	Properties				Uses
Santoprene TPV 8201-60	•	•	•	•	•	•					•	•		A	64	Natural	520	5.9	2.2	29	General purpose grades; extrusion and molding. Colorable
Santoprene TPV 8201-70	•	•	•	•	•	•					•	•		A	75	Natural	570	7.5	2.9	36	General purpose grades; extrusion and molding. Colorable
Santoprene TPV 8201-80	•	•	•	•	•	•					•	•	•	A	85	Natural	630	9.8	4.2	35	General purpose grades; extrusion and molding. Colorable
Santoprene TPV 8201-90	•	•	•	•	•	•					•	•	•	A	94	Natural	620	13.0	7.1	52	General purpose grades; extrusion and molding. Colorable
Santoprene TPV 8211-35	•	•	•	•	•	•					•	•		A	38	Natural	350	2.9	1.0		Improved flow for easier processability. Enhanced colorability
Santoprene TPV 8211-45	•	•	•	•	•	•					•	•		A	49	Natural	410	3.6	1.5	25	Improved flow for easier processability. Enhanced colorability
Santoprene TPV 8211-55	•	•	•	•	•	•					•	•		A	59	Natural	480	4.6	2.1	19	Improved flow for easier processability. Enhanced colorability
Santoprene TPV 8211-65	•	•	•	•	•	•					•	•		A	70	Natural	510	5.5	2.5	29	Improved flow for easier processability. Enhanced colorability
Santoprene TPV 8211-75	•	•	•	•	•	•					•	•		A	80	Natural	520	7.0	3.8	36	Improved flow for easier processability. Enhanced colorability
Santoprene TPV 8211-85M350	•	•	•	•	•	•					•	•		A	86	Natural	480	8.8			Improved flow for easier processability; improved abrasion resistance

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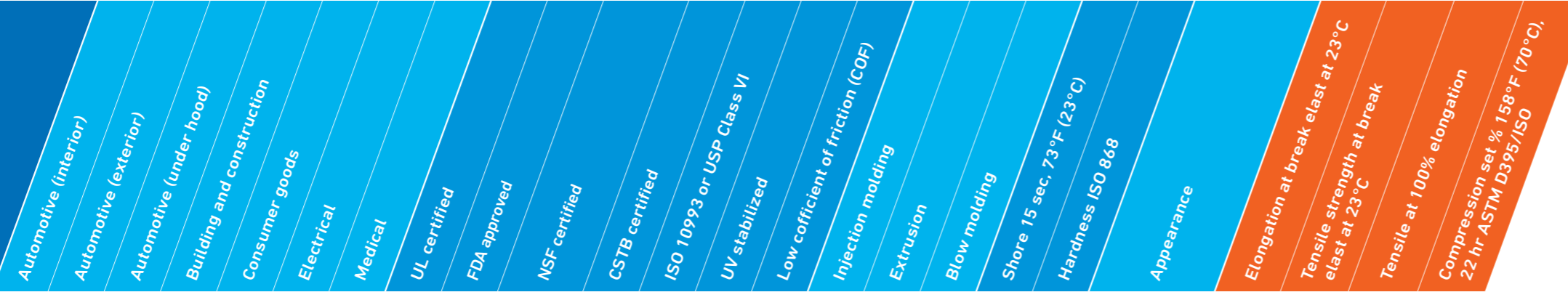
UV black TPV grades

	Applications						Requirements						Processing			Hardness		Appearance	Properties				Uses
Santoprene TPV 121-80	•	•	•	•	•	•							•	•	•	A	85	Black	560	11.0	4.6		General purpose; extrusion and molding; improved UV stability
Santoprene TPV 121-87	•	•	•	•	•	•							•	•	•	A	93	Black	600	15.2	6.8		General purpose; extrusion and molding; improved UV stability
Santoprene TPV 123-40	•	•	•	•	•	•							•	•	•	D	41	Black	620	19.1	9.1		General purpose; extrusion and molding; improved UV stability
Santoprene TPV 121-50E500	•	•	•	•	•	•							•	•	•	A	56	Black	450	4.0	1.7	23	Tailored for robotic extrusion
Santoprene TPV HR 121-60E400	•	•	•	•	•	•							•	•	•	A	64	Black	440	6.4	2.4	21	High resilience TPV; High elastic recovery; very low compression set; for static and dynamic sealing
Santoprene TPV 121-50M100	•	•	•	•	•	•							•	•	•	A	56	Black	465	4.4	1.8	31	Improved flow for easier processability
Santoprene TPV 121-62M100	•	•	•	•	•	•							•	•	•	A	67	Black	417	4.7	2.4	34	Improved flow for easier processability
Santoprene TPV 121-75M100	•	•	•	•	•	•							•	•	•	A	80	Black	441	6.6	3.8	42	Improved flow for easier processability
Santoprene TPV 121-85M100	•	•	•	•	•	•							•	•	•	A	89	Black	390	7.3	5.4	49	Improved flow for easier processability
Santoprene TPV 121-60M200	•	•	•	•	•	•							•	•	•	A	61	Black	379	4.1	2.0	28	Improved flow for easier processability
Santoprene TPV 121-75M200	•	•	•	•	•	•							•	•	•	A	76	Black	423	5.8	3.1	36	Improved flow for easier processability
Santoprene TPV 121-65M300	•	•	•	•	•	•							•	•	•	A	65	Black	490	6.6	2.3	41	Improved flow for easier processability; low volatiles
Santoprene TPV 121-80M300	•	•	•	•	•	•							•	•	•	A	82	Black	560	11.0	3.8	53	Improved flow for easier processability; low volatiles
Santoprene TPV 121-70M350	•	•	•	•	•	•							•	•	•	A	70	Black	480	6.2	2.6	40	Improved flow for easier processability; improved abrasion resistance
Santoprene TPV 121-55W241	•	•	•	•	•	•							•	•	•	A	59	Black	480	4.8	2.0		Improved flow for easier processability; Used in glass encapsulation
Santoprene TPV 121-58W175	•	•	•	•	•	•							•	•	•	A	61	Black	460	5.1	2.0	27	General purpose; extrusion and molding; UV stability; tuned for profile extrusion performance
Santoprene TPV 121-67W175	•	•	•	•	•	•							•	•	•	A	72	Black	432	6.8	2.9	29	General purpose; extrusion and molding; UV stability; tuned for profile extrusion performance
Santoprene TPV 121-73W175	•	•	•	•	•	•							•	•	•	A	78	Black	460	8.7	3.8	34	General purpose; extrusion and molding; UV stability; tuned for profile extrusion performance
Santoprene TPV 121-80W175	•	•	•	•	•	•							•	•	•	A	85	Black	470	9.1	4.4		General purpose; extrusion and molding; UV stability; tuned for profile extrusion performance
Santoprene TPV 123-50W175	•	•	•	•	•	•							•	•	•	D	51	Black					General purpose; extrusion and molding; UV stability; tuned for profile extrusion performance
Santoprene TPV 121-65B200	•	•	•	•	•	•							•	•	•	A	67	Black	600	9.2	2.3	48	Improved bonding to TPV and EPDM
Santoprene TPV 121-80B200	•	•	•	•	•	•							•	•	•	A	81	Black	725	11.9	3.9		Improved bonding to TPV and EPDM
Santoprene TPV 121-70B230	•	•	•	•	•	•							•	•	•	A	74	Black	470	6.5	2.6	44	Low coefficient of friction; Improved bonding to TPV and EPDM
Santoprene TPV 121-80B230	•	•	•	•	•	•							•	•	•	A	80	Black	540	8.3	3.3	50	Low coefficient of friction; Improved bonding to TPV and EPDM
Santoprene TPV 121-70B260	•	•	•	•	•	•							•	•	•	A	68	Black	520	6.4	2.6	49	Low coefficient of friction; Improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-80B260	•	•	•	•	•	•							•	•	•	A	78	Black	640	11.0	3.5	62	Low coefficient of friction; Improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-40B265	•	•	•	•	•	•							•	•	•	A	41	Black			1.1	33	Low coefficient of friction; improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-70B265	•	•	•	•	•	•							•	•	•	A	70	Black				36	Low coefficient of friction; improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-80B265	•	•	•	•	•	•							•	•	•	A	82	Black				46	Low coefficient of friction; improved bonding to TPV and EPDM; auto corner molding

UV natural TPV grades

	Applications						Requirements						Processing			Hardness		Appearance	Properties				Uses
Santoprene TPV 8221-60	•	•	•	•	•	•							•	•	•	A	64	Natural	470	5.7	2.2	32	General purpose grades; extrusion and molding; Added UV stability
Santoprene TPV 8221-70	•	•	•	•	•	•							•	•	•	A	75	Natural	600	6.8	2.9	38	General purpose grades; extrusion and molding; Added UV stability
Santoprene TPV 8221-55M300	•	•	•	•	•	•							•	•	•	A	52	Natural	350	4.0	1.5		Improved flow for easier processability; improved abrasion resistance
Santoprene TPV 8221-65M300	•	•	•	•	•	•							•	•	•	A	65	Natural	470	4.7	2.1		Improved flow for easier processability
Santoprene TPV 8221-75M300	•	•	•	•	•	•							•	•	•	A	75	Natural	490	6.8	3.1		Improved flow for easier processability
Santoprene TPV 8221-85M300	•	•	•	•	•	•							•	•	•	A	84	Natural	500	9.0	4.1		Improved flow for easier processability
Santoprene TPV 8223-30M300	•	•	•	•	•	•							•	•	•	D	26	Natural	490	9.3	5.3		Improved flow for easier processability

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Food, water and detergent resistant TPV grades

	Applications	Requirements	Processing	Hardness	Appearance	Properties	Uses
Santoprene TPV 101-45W255	•	•	• •	A 48	Black	400 4.0 1.4	Stabilized for protection against copper/ other metal catalyzed degradation; Used for detergent resistance
Santoprene TPV 101-55W255	•	•	• •	A 61	Black	510 5.2 1.8	Stabilized for protection against copper/ other metal catalyzed degradation; Used for detergent resistance
Santoprene TPV 201-55W255	•		• •	A 60	Natural	450 5.1 1.9 35	Stabilized for protection against copper/ other metal catalyzed degradation; Used for detergent resistance
Santoprene TPV 241-55	• •	NSF-51 NSF-61	• •	A 59	Natural	450 4.5 1.7	NSF 51 certified for materials used in food equipment; NSF 61 certified for potable water contact
Santoprene TPV 241-64	• •	NSF-51 NSF-61	• •	A 69	Natural	450 7.0 2.6	NSF 51 certified for materials used in food equipment; NSF 61 certified for potable water contact
Santoprene TPV 241-73W236	• •	NSF-61	•	A 79	Natural	490 8.8 3.6	NSF 61 certified for potable water contact; W236 grades stabilized against copper/other metal-catalyzed degradation
Santoprene TPV 241-80W236	• •	NSF-61	•	A 87	Natural	560 11.0 4.4	NSF 61 certified for potable water contact; W236 grades stabilized against copper/other metal-catalyzed degradation
Santoprene TPV 271-55	•	NSF-51	• •	A 59	Natural	390 4.5 1.9 22	FDA non-fatty food contact; NSF 51 food contact
Santoprene TPV 271-64	•	NSF-51	• •	A 69	Natural	490 6.6 2.6 18	FDA non-fatty food contact; NSF 51 food contact
Santoprene TPV 271-73	•	NSF-51	• •	A 78	Natural	490 8.8 3.6 28	FDA non-fatty food contact; NSF 51 food contact
Santoprene TPV 271-80	•	NSF-51	• •	A 85	Natural	540 10.6 4.6 41	FDA non-fatty food contact; NSF 51 food contact
Santoprene TPV 271-87	•	NSF-51	• •	A 93	Natural	580 17.6 7.1 36	FDA non-fatty food contact; NSF 51 food contact
Santoprene TPV 273-40	•	NSF-51	• •	D 41	Natural	610 18.0 9.0 54	FDA non-fatty food contact; NSF 51 food contact
Santoprene TPV 8271-55	•	NSF-51	• •	A 60	Natural	430 4.5 2.0 20	FDA non-fatty food contact. NSF 51 certified for materials used in food equipment; may not be used with foods containing >50% alc
Santoprene TPV 8271-65	•	NSF-51	• •	A 69	Natural	470 6.5 2.7 32	FDA non-fatty food contact. NSF 51 certified for materials used in food equipment; may not be used with foods containing >50% alc
Santoprene TPV 8271-75	•	NSF-51	• •	A 81	Natural	480 8.3 3.9 37	FDA non-fatty food contact. NSF 51 certified for materials used in food equipment; may not be used with foods containing >50% alc

Flame retardant TPV grades

	Applications	Requirements	Processing	Hardness	Appearance	Properties	Uses
Santoprene TPV 151-70W256	•	•	• •	A 75	Black	480 4.8 2.3	Flame retardant (UL 5VA) and UV resistance; extrusion and injection molding
Santoprene TPV 251-70W232			• •	A 75	Natural	550 6.3 2.7	Flame retardant (UL 94 V-0 rated)
Santoprene TPV 251-80W232			• •	A 86	Natural	550 9.0 3.9 40	Flame retardant (UL 94 V-0 rated)
Santoprene TPV 251-85W232			• •	A 89	Natural	540 10.6 4.5	Flame retardant (UL 94 V-0 rated)
Santoprene TPV 251-92W232			• •	A 98	Natural	630 13.9 7.2	Flame retardant (UL 94 V-0 rated)

Healthcare, medical & pharmaceutical approved TPV grades

	Applications	Requirements	Processing	Hardness	Appearance	Properties	Uses
Santoprene TPV 181-55MED		•	• •	A 59	Black	440 6.1 2.1	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 281-55MED		•	• •	A 60	Natural	410 4.9 2.0	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-35MED		•	• •	A 39	Natural	330 2.6 0.9	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-45MED		•	• •	A 49	Natural	440 3.6 1.3	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-55MED		•	• •	A 59	Natural	430 5.2 2.0	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-65MED		•	• •	A 68	Natural	480 5.9 2.4	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-75MED		•	• •	A 79	Natural	510 7.8 3.6	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-90MED		•	• •	A 94	Natural	650 13.0 6.7	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8181-55B1MED		•	• •	A 53	Black	600	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA
Santoprene TPV 8281-55B1MED		•	• •	A 53	Natural	600	Medical grade; meets: ISO 10993-1, USP Class VI, Drug Master File maintained with FDA

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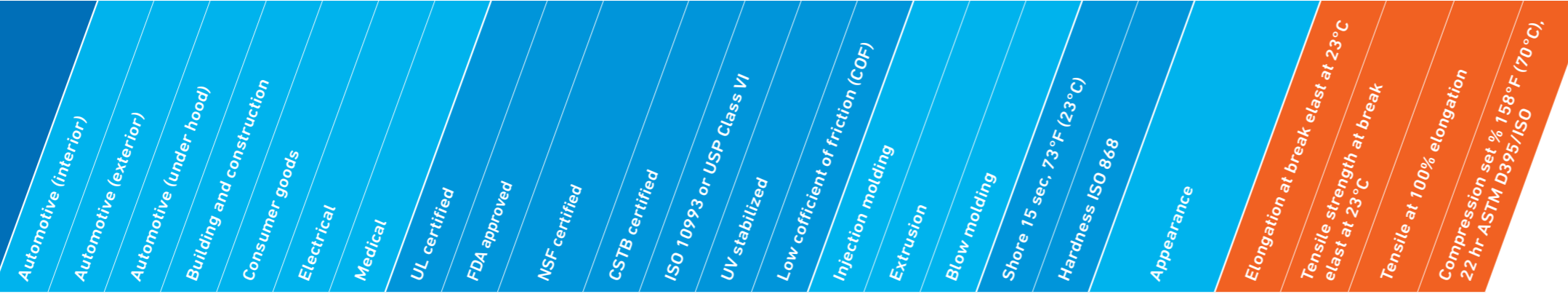
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[UL® Yellow Cards >](#)

[Auto OEM Specification >](#)

[Certificates >](#)

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Building & construction sealing TPV grades

	Applications	Requirements	Processing	Hardness	Appearance	Properties	Uses
Santoprene TPV 8201-50W185	• •		• •	A 53	Natural	575 5.1 22	Improved compression set, Non-hygroscopic, colorable. Meets ASTM 477 Low Head for pipe seal application
Santoprene TPV 591-56W175	• •		• •	A 62	Black	439 5.3 2.1	General purpose for extrusion and injection molding; good UV performance for outdoor sealing
Santoprene TPV 591-65W175	• •		• •	A 73	Black	439 7.0 2.9 31	General purpose for extrusion and injection molding; good UV performance for outdoor sealing
Santoprene TPV 591-73W175	• •		• •	A 78	Black	461 8.7 3.6 34	General purpose for extrusion and injection molding; good UV performance for outdoor sealing
Santoprene TPV 691-65W175	• •		• •	A 70	Natural	490 6.2 2.7	General purpose, natural, extrusion/injection molding; designed for thin wall, glazing and sealing applications
Santoprene TPV 691-73W175	• •		• •	A 78	Natural	465 8.3 3.4	General purpose, natural, extrusion/injection molding; designed for thin wall, glazing and sealing applications

Bonding TPV grades

	Applications	Requirements	Processing	Hardness	Appearance	Properties	Uses
Santoprene TPV 121-65B200	• • • • •		• •	A 67	Black	600 9.2 2.3 48	Improved bonding to TPV and EPDM
Santoprene TPV 121-80B200	• • • • •		• •	A 81	Black	725 11.9 3.9	Improved bonding to TPV and EPDM
Santoprene TPV 121-70B230	• • • • •		• • •	A 74	Black	470 6.5 2.6 44	Low coefficient of friction; Improved bonding to TPV and EPDM
Santoprene TPV 121-80B230	• • • • •		• • •	A 80	Black	540 8.3 3.3 50	Low coefficient of friction; Improved bonding to TPV and EPDM
Santoprene TPV 121-70B260	• • • • •		• • •	A 68	Black	520 6.4 2.6 49	Low coefficient of friction; Improved bonding to TPV and EPDM; automotive corner molding
Santoprene TPV 121-80B260	• • • • •		• • •	A 78	Black	640 11.0 3.5 62	Low coefficient of friction; Improved bonding to TPV and EPDM; automotive corner molding
Santoprene TPV 121-40B265	• • • • •		• • •	A 41	Black	1.1 33	Low coefficient of friction; improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-70B265	• • • • •		• • •	A 70	Black	36	Low coefficient of friction; Improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-80B265	• • • • •		• • •	A 82	Black	46	Low coefficient of friction; Improved bonding to TPV and EPDM; auto corner molding
Santoprene TPV 121-79W233	• • • • •		• •	A 84	Black	615 7.4 3.6 49	Overmolding or coextrusion onto EPDM rubber
Santoprene TPV 291-60B150	• • • • •		• •	A 65	Natural	540 8.0 2.1 62	Overmolding or co-extrusion onto acrylics, polyesters, ABS, PC
Santoprene TPV 291-75B150	• • • • •		• •	A 78	Natural	68	Overmolding or co-extrusion onto acrylics, polyesters, COPE, ABS, PC
Santoprene TPV 8191-55B100	• • • • •		• •	A 57	Black	600	Bonding to PC and styrenics and PP
Santoprene TPV 8211-55B100	• • • • •		• •	A 57	Natural	600	Bonding to PC and styrenics and PP
Santoprene TPV 8291-85TL	• • • • •		• •	A 86	Natural	830 9.2 4.0	Bonds to metal, fabrics, and nylon; used as tie-layer, e.g. auto belt line seals

Specialty TPV & ECO-R grades

	Applications	Requirements	Processing	Hardness	Appearance	Properties	Uses
Santoprene TPV 101-60W261	• • • • •		• •	A 65	Black	550 7.2 1.9	Designed for applications with good elastic recovery and excellent flex fatigue resistance
Santoprene TPV 121-50E500	• • • • •		• •	A 56	Black	450 4.0 1.7 23	Tailored for robotic extrusion
Santoprene TPV HR 121-60E400	• • • • •		• •	A 64	Black	440 6.4 2.4 21	High resilience TPV; High elastic recovery; very low compression set; for static and dynamic sealing
Santoprene TPV 123-50S200	• • • • •		• •	D 50	Black		Slip coat extrusion grade; low CoF, good wear properties
Santoprene TPV 123-52W242	• • • • •		• •	D 52	Black		Slip coat extrusion grade; low CoF, good wear properties
Santoprene TPV 201-67W171	• • • • •		• •	A 71	Natural	450 6.9 2.8	Profile extrusion; water or chemical foaming
Santoprene TPV 201-73W222	• • • • •		• •	A 77	Natural	460 3.3	Combines good fluid and oxidative resistance for use in a wide range of applications
Santoprene TPV 8123-45S100	• • • • •		• •	D 45	Black		Slip coat extrusion grade; low CoF, good wear properties
Santoprene TPV 8211-85M350	• • • • •		• •	A 86	Natural	480 8.8	Improved flow for easier processability; improved abrasion resistance
Santoprene TPV 9101-80E	• • • • •		• •	A 80	Black	670 7.0 3.4 48	Extrusion grade
Santoprene TPV 101-80ECO-R	• • • • •		• •	A 82	Black	500 7.6 3.8 34	Contains a minimum of 15% post-consumer recycle (PCR)
Santoprene TPV 101-87ECO-R	• • • • •		• •	A 82	Black	500 7.6 3.8 34	Contains a minimum of 25% post-consumer recycle (PCR)
Santoprene TPV 9221-87	• • • • •		• •	A 93	Natural	450 8.8 5.8	Profile extrusion grade with optimized UV and surface

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