

The third most widely produced synthetic plastic polymer after polyethylene (PP) and polypropylene (PE), polyvinyl chloride (PVC) comes in two basic forms: rigid and flexible. PVC is used in construction applications such as pipes, doors and windows, as well as in the packaging, automotive, household and furniture, and medical sectors. Flexible PVC today often replaces rubber in plumbing, electrical cable insulation, imitation leather, signage and inflatable products.

Mainly used for PVC, plasticizers improve the flexibility and durability of plastic end products. They also act as softeners, extenders and lubricants.

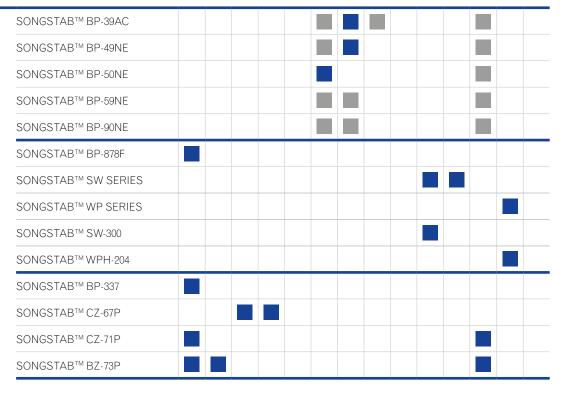
SONGWON offers a comprehensive range of PVC stabilizers and plasticizers. In our PVC application lab in Ulsan, Korea, we support customers with expert formulation and performance evaluations.



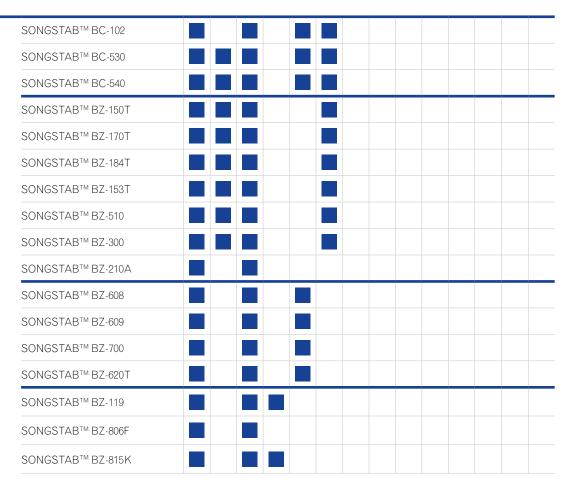
Product range selection guide

Floolings Castine litus Bankes Florible Strings String Library Library

One Pack Systems (for PVC)



Mixed Metal Stabilizers





Suitable

	F100t	Oec.	orative fi	ims Icial lea	babets Users	el coatil	ole extr	ic wire	s contact Rigir	is Jfilms Pipe	s Fittir	ngs Auto	motives Mind	catalyst
SONGSTAB™ BZ-191														
SONGSTAB™ BZ-900P														
SONGSTAB™ CZ-200														
SONGSTAB™ CZ-400														

Metal Soap Stabilizers

SONGSTAB™ SC-110							
SONGSTAB™ SC-130							
SONGSTAB™ SZ-210							
SONGSTAB™ SM-310							
SONGSTAB™ SB-410							
SONGSTAB™ BA-ST							

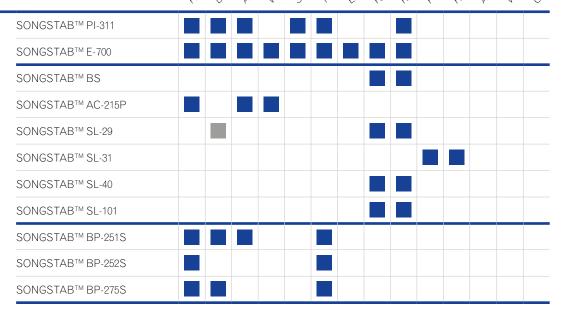
Organo-Tin Stabilizers

SONGSTAB™ BT-107N				
SONGSTAB™ BT-711C				
SONGSTAB™TM-506				
SONGSTAB™TL-600				
SONGSTAB™TM-300P				
SONGSTAB™TM-600P				
SONGSTAB™TM-661P				
SONGSTAB™ OT-713R				
SONGSTAB™TM-710M				
SONGSTAB™TL-700				
SONGSTAB™ MT-800				
SONGSTAB™ MT-800D				
SONGSTAB™ MT-830				



Floolings Charliegia leathers Coatings Electric miles Lings Lings Lings Lings Lings Lings Antondrives Mundow blothers

Auxiliary Stabilizers and Lubricants



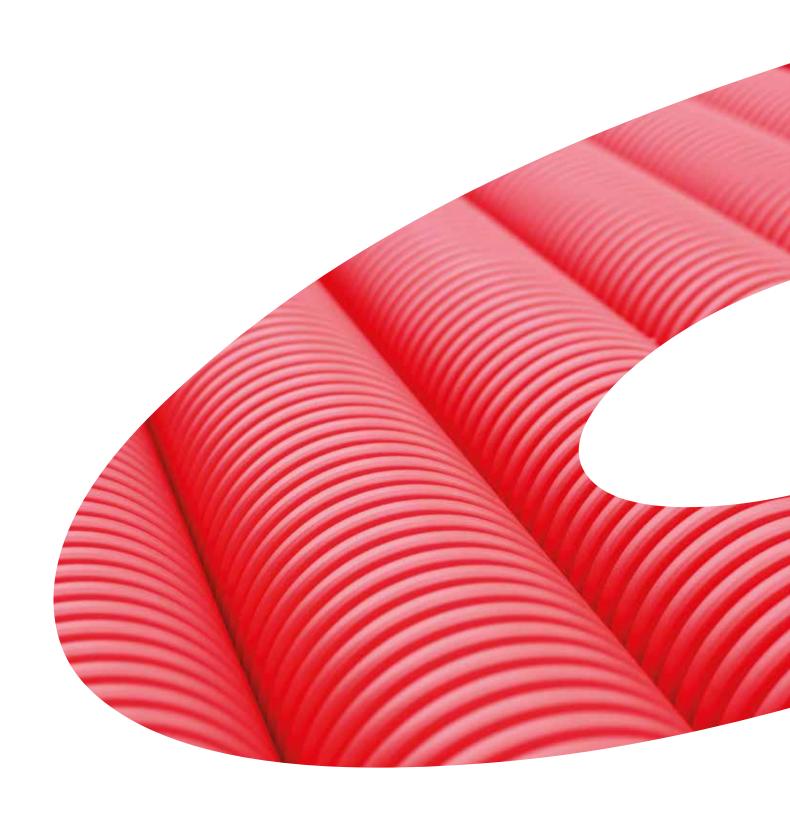
Hoses Artificial leathers Electrical wires and cables Artificial leathers Electrical wires and cables Films Wallbaber Food backading materials

Plasticizers

SONGCIZER™ DOA				
SONGCIZER™TOTM				
SONGCIZER™ P-900				
SONGCIZER™ P-1500				
SONGCIZER™ P-2600				
SONGCIZER™ P-2600S				
SONGCIZER™ P-2700				
SONGCIZER™ P-2800				
SONGCIZER™ P-3000				

Recommended

Suitable





One Pack Systems (for PVC)

	Dosage (PHR)	Characteristics	Applications
SONGSTAB TM BP-39AC Complex of Ca-Zn compounds and lubricants PW	5.0 ~ 7.0	 Excellent heat stability and processability Low odor and volatiles Semi-rigid or flexible clear extrusion 	Clear electric wires No toxic transparent hosepipes
SONGSTAB TM BP-49NE Complex of Ca-Zn compounds and lubricants PW	5.0 ~ 7.0	 Excellent heat stability (105°C) and processability Low odor and volatiles Semi-rigid or flexible extrusion 	Electric wires Automotives
SONGSTAB TM BP-50NE Complex of Ca-Zn compounds and lubricants PW	3.0 ~ 7.0	 Excellent heat stability and processability Low odor and volatiles Semi-rigid or flexible extrusion 	Gasket for refrigerators
SONGSTAB TM BP-59NE Complex of Ca-Zn compounds and lubricants PW	5.0 ~ 8.0	 Excellent heat stability (105°C) and processability Low odor and volatiles Semi-rigid or flexible extrusion 	Electric wires Automotives
SONGSTAB TM BP-90NE Complex of Ca-Zn compounds and lubricants PW	10.0 ~ 13.0	Excellent heat stability (125°C) and processability Low odor and volatiles Semi-rigid or flexible extrusion High congo red value	Electric wires
SONGSTAB TM BP-878F Complex of Ba-Zn compounds and lubricants PW	2.0 ~ 5.0	Excellent heat stability and processability Low odor and volatiles Standard expanded flexible PVC for calendering	Calender for floorings
SONGSTAB TM SW series Complex of Ca-Zn compounds and lubricants PW	3.0 ~ 7.0	Excellent heat stability, processability and initial colority Excellent external lubricant complex Suitable for standard PVC pipes and fittings	Pipes Fittings
SONGSTAB TM WP series Complex of Ca-Zn compounds and lubricants PW	5.0 ~ 7.0	Excellent heat stability and processabilityNo heavy metalsSuitable for window profiles	Window profiles
SONGSTAB™ SW-300 Complex of Ca-Zn compounds and lubricants PW	3.0 ~ 6.0	Excellent heat stability and processability No heavy metals	Standard rigid extrusion
SONGSTAB TM WPH-204 Complex of Ca-Zn compounds and lubricants PW	3.0 ~ 4.0	 Excellent heat stability and processability with tin mercaptides (1.2 ~ 1.7 PHR) No heavy metals 	Window profiles

	Dosage (PHR)	Characteristics	Applications
SONGSTAB™ BP-337 Complex of Ba-Zn compounds and lubricants PW	3.0 ~ 6.0	 Excellent heat stability and processability No heavy metals, no VOCs Suitable for PVC tiles (high filler) 	• Tiles
SONGSTAB™ CZ-67P Complex of Ca-Zn compounds and lubricants PW	1.0 ~ 2.0	Stabilizer for expanded PVC leather and wall paper of paste resin Fine uniform cell structure and large blowratio even used alone Low VOC emission	Plastisols for blow molding (artificial leathers, wall papers)
SONGSTAB™ CZ-71P Complex of Ca-Zn compounds and lubricants PW	2.0 ~ 4.0	One pack stabilizer for flexible calendering products Good synergistic effects when used with epoxy plasticizers Low VOC emission	Flexible calendering (PVC opaque tapes)
SONGSTAB™ BZ-73P Complex of Ba-Zn compounds and lubricants PW	1.5 ~ 2.0	One pack stabilizer for flexible calendering products Suitable for transparent and opaque film Low VOC emission, phenol free	Flexible calendering

Mixed Metal Stabilizers

	Dosage (PHR)	Characteristics	Applications
SONGSTAB™ BC-102 Complex of Cd-Ba-Zn organics LQ	1.5 ~ 2.5	Good heat and light stability and excellent clarity More effective when used with metallic soaps and/or epoxy plasticizers	Flexible, semi-rigid calendering and extrusion
SONGSTAB™ BC-530 Complex of Cd-Ba-Zn organics LQ	2.0 ~ 3.0	One pack stabilizer with lubricant Excellent heat stability, weatherability and processability	Flexible, semi-rigid calendering and extrusion
SONGSTAB™ BC-540 Complex of Cd-Ba-Zn organics LQ	2.0 ~ 3.0	One pack stabilizer with lubricant Excellent heat stability, weatherability and processability Longterm heat stability better than that of BC-530	Flexible, semi-rigid calendering and extrusion
SONGSTAB™ BZ-150T Complex of Ba-Zn organics LQ	1.5 ~ 2.5	 Two package stabilizer for flexible and semi-rigid calendering products Good transparency when used with BP-251S With higher filler or TiO₂ loadings, excellent whiteness obtainable when used with BP-252S 	Flexible, semi-rigid calendering and extrusion



	Dosage (PHR)	Characteristics	Applications	
SONGSTAB™ BZ-170T Complex of Ba-Zn organics LQ 2.0 ~ 3		 One pack stabilizer for flexible and semi-rigid calendering products Not required to use with lubricants or metallic soaps Good synergistic effects when used with epoxy plasticizers Good heat stability and clarity Excellent whiteness obtainable when used with BP-275S 	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ BZ-184T Complex of Ba-Zn organics LQ	3.0 ~ 5.0	 One pack stabilizer for semi-rigid and low plasticized calendering products Good synergistic effects when used with epoxy plasticizers Good heat stability and clarity Excellent whiteness obtainable when used with BP-275S 	Semi-rigid and low plasticized calendering and extrusion	
SONGSTAB™ BZ-153T Complex of Ba-Zn organics LQ	2.0 ~ 3.0	One pack stabilizer for flexible and semi-rigid calendering products Not required to use with lubricants or metallic soaps Good synergistic effects when used with epoxy plasticizers Good heat stability, clarity, low VOC emission, no phenol Excellent whiteness obtainable when used with BP-275S	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ BZ-510 Complex of Ba-Zn organics LQ	2.0 ~ 3.0	 One pack stabilizer for semi-rigid and low plasticized calendering products Good synergistic effects when used with epoxy plasticizers Good heat stability, clarity, low VOC emission, no phenol Excellent whiteness obtainable when used with BP-275S 	Semi-rigid and low plasticized calendering and extrusion	
SONGSTAB™ BZ-300 Complex of Ba-Zn organics LQ	2.0 ~ 3.0	One pack stabilizer for flexible and semi-rigid calendering products Not required to use with lubricants or metallic soaps Good synergistic effects when used with epoxy plasticizers Good heat stability, clarity and low VOC emission Excellent whiteness obtainable when used with BP-275S	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ BZ-210A Complex of Ba-Zn organics LQ	2.0 ~ 3.0	One pack stabilizer for flexible calendering products Good synergistic effects when used with epoxy plasticizers Good clarity and no blooming	Flexible calendering	
SONGSTAB™ BZ-608 Complex of Ba-Zn organics LQ	2.0 ~ 3.0	 Doesn't react with a bonding agent Excellent clarity and color stability Skin-layer of artificial leather, tarpaulin and slush molding 	Plastisols and tarpaulins	

	Dosage (PHR)	Characteristics	Applications
SONGSTAB™ BZ-609 Complex of Ba-Zn organics LQ	2.0 ~ 3.0	Heat stabilizer for flooring skin layer of paste resin Excellent clarity and color stability No reddishness and initial color	Plastisols (inks, clear top layers)
SONGSTAB™ BZ-700 Complex of Ba-Zn organics LQ	2.0 ~ 3.0	Heat stabilizer for flooring skin layer of paste resin Excellent clarity and color stability No reddishness and initial color Low VOC emission, phenol free, PTBBA free	Plastisols (inks, clear top layers)
SONGSTAB™ BZ-620T Complex of Ba-Zn organics LQ	2.0 ~ 3.0	Heat stabilizer for flooring skin layer of paste resin Excellent clarity, color stability and low VOC emission No reddishness and initial color	Plastisols (inks, clear top layers)
SONGSTAB™ BZ-119 Complex of K-Zn organics LQ	2.0 ~ 3.0	Stabilizer for foamed leather and wall paper of paste resin Fast foaming Fine uniform cell structure obtained even with higher filler loadings	Plastisols for blow molding (artificial leathers, wall papers)
SONGSTAB™ BZ-806F Complex of Ba-Zn organics LQ	2.0 ~ 3.0	Stabilizer for chemically blown PVC foams Expanded leather with very fine uniform cell structure is obtainable Good lubricity, no plate-out and no blooming	Calendering for blow molding (floorings)
SONGSTAB™ BZ-815K Complex of Ba-Zn organics LQ	2.0 ~ 3.0	Stabilizer for blown wall paper of paste resin Fine uniform cell structure obtained even with higher filler loadings	Plastisols for blow molding (artificial leathers, wall papers)
SONGSTAB™ BZ-191 Complex of K-Zn organics LQ	2.0 ~ 3.0	Stabilizer for foamed leather and wall paper of paste resin Fast foaming Fine uniform cell structure obtained even with higher filler loadings Low VOC emission	Plastisols for blow molding (artificial leathers, wall papers)
SONGSTAB™ BZ-900P Complex of Na-Zn organics LQ	2.0 ~ 3.0	Stabilizer for foamed leather and wall paper of paste resin Fast foaming Fine uniform cell structure obtained even with higher filler loadings Low VOC emission	Plastisols for blow molding (artificial leathers, wall papers)
SONGSTAB™ CZ-200 Complex of Ca-Zn organics LQ	3.0 ~ 4.0	One pack stabilizer for flexible calendering products Good transparency and anti-blooming properties Synergistic effects when used with epoxy plasticizer Good heat stability	Flexible calendering (standard films)
SONGSTAB™ CZ-400 Complex of Ca-Zn organics LQ	2.5 ~ 3.5	One pack stabilizer for flexible calendering products Good transparency and anti-blooming properties suitable for PVC wraps Synergistic effects when used with epoxy plasticizer Good heat stability	Flexible calendering (wraps, bright films)



Metal Soap Stabilizers

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
SONGSTAB™ SC-110 Calcium stearate CAS NO. 1592-23-0 PW	O — C — C ₁₇ H ₃₅ Ca O — C — C ₁₇ H ₃₅ O — C — C ₁₇ H ₃₅	572	145.0 ~ 160.0	-	325 5% 415 10% 460 50%
SONGSTAB™ SC-120 Calcium stearate CAS NO. 1592-23-0 PW	O	572	145.0 ~ 160.0	-	325 5% 415 10% 460 50%
SONGSTAB™ SC-130 Calcium stearate CAS NO. 1592-23-0 PW	O C C ₁₇ H ₃₅ Ca O C C ₁₇ H ₃₅ O C C C C C C C C C	572	145.0 ~ 160.0	_	325 5% 415 10% 460 50%
SONGSTAB™ SZ-210 Zinc stearate CAS NO. 557-05-1 CAS NO. 91051-01-3 PW	O O—C—C ₁₇ H ₃₅ Zn O—C—C ₁₇ H ₃₅	597	116.0 ~ 125.0	-	335 5% 356 10% 380 50%
SONGSTAB™ SM-310 Magnesium stearate CAS NO. 557-04-0 PW	O	552	115.0 ~ 145.0	-	335 5% 350 10% 370 50%
SONGSTAB™ SB-410 Barium distearate CAS NO. 6865-35-6 PW	O O—C—C ₁₇ H ₃₅ Ba O—C—C ₁₇ H ₃₅ O	685	_	_	445 5% 460 10% 480 50%
SONGSTAB™ Ba-St Barium stearate CAS NO. 6865-35-6 PW	$\begin{array}{c} O \\ O - C - C_{17}H_{35} \\ Ba \\ O - C - C_{17}H_{35} \\ O \\ O \end{array}$	685	-	-	445 5% 460 10% 480 50%

Organo-Tin Stabilizers

	Dosage (PHR)	Characteristics	Applications
SONGSTAB™ BT-107N Butyltin mercaptide complex LQ	2.0 ~ 3.0	 Excellent heat stability and clarity No bleeding even when used for soft products Excellent resistance to water fogging No sulfide staining 	Rigid calendering and extrusion
SONGSTAB™ BT-711C Butyltin mercaptide LQ	2.0 ~ 3.0	 Excellent heat stability and clarity No bleeding even when used for soft products Excellent resistance to water fogging 	Rigid calendering and extrusion
SONGSTAB™TM-506 Butyltin maleate ester complex LQ	2.5 ~ 3.5	Excellent heat stability, weatherability and clarity Optimum in combination with gelling properties and good lubricity Suitable for long-time processing at high temperature in TL-600	Rigid calendering and extrusion
SONGSTAB™ TL-600 Dibutylin laurate complex LQ	0.5 ~ 1.5	Butyltin laurate complex Outstanding initial lubricity and weatherability No bleeding and optimum gelling properties Initial colorless products are obtainable when used with other organotin, liquid organic stabilizers	Rigid, flexible calendering and extrusion
SONGSTAB™TM-300P Dibutyltin 3-mercapto propionate PW	1.0 ~ 2.0	 Excellent initial color in rigid PVC Excellent heat stability – counteracts lowering of softening point and impact strength of rigid vinyl products Must not be use with stabilizer containing a Pb or Cd (results in formation of black substance) 	Rigid calendering and extrusion
SONGSTAB™TM-600P Dibutyltin maleate (polymer) PW	1.0 ~ 2.0	Polymeric butyltin maleate stabilizer (powder form) Excellent heat stability, light stability and clarity Counteracts lowering of softening point and impact strength of rigid vinyl products Excellent heat stability of PVC-ABS and PVC-NBR polymer blend	 Rigid PVC calendering and extrusion Flame retardants ABS, PS etc
SONGSTAB™TM-661P Dibutyltin maleate complex PW	0.3 ~ 0.6	Polymeric butyltin maleate stabilizer (powder form) Excellent heat stability as halogen capture for flame retardant ABS or copolymer of PVC and styrenic resin Excellent heat stability to PVC-ABS or PVC-NBR polymer blend Much more cost effective than butyltin maleate polymer	Flame retardantsABS, PS etc
SONGSTAB™ OT-713R Octyltin mercaptide LQ	2.0 ~ 3.0	Not suitable for containers of liquified milk, malt beverages and no alcoholic carbonated beverages Usable quantity: less than 3 PHR Little initial color formation Excellent heat stability and transparency Good results are obtainable when used with TL-700 or Ca-St or SC-110	Rigid calendering and extrusion



	Dosage (PHR)	Characteristics	Applications
SONGSTAB™ TM-710M Dioctyltin maleate ester complex LQ	2.0 ~ 3.0	Not suitable for containers of liquefied milk, malt beverages, no alcoholic carbonated beverages Excellent heat stability and weatherability Higher tin content than TM-700M Freezing at low temperatures does not affect the properties of this product	Rigid calendering and extrusion
SONGSTAB™TL-700 Dioctyltin laurate complex LQ	0.5 ~ 1.5	Not suitable for containers of liquified milk, malt beverages and no alcoholic carbonated beverages Usable quantity: less than 2.5 PHR Excellent lubricity and weatherability Odorless and no blooming Initial colorless products are obtainable when used in combination with octyltin mercaptides	Rigid, flexible calendering and extrusion
SONGSTAB™ MT-800 Mono, Dimethyltin mercaptide complex LQ	1.5 ~ 2.5	Not suitable for containers of liquefied milk, malt beverages, no alcoholic carbonated beverages Excellent initial color, heat stability and transparency Outstanding transparency Use slightly higher quantity of external lubricant equal to amount of octyltin mercaptide stabilizer	Rigid calendering and extrusion
SONGSTAB™ MT-800D Dimethyltin mercaptide LQ	1.5 ~ 2.5	Not suitable for containers of liquefied milk, malt beverages, no alcoholic carbonated beverages Excellent initial color, heat stability and transparency Outstanding transparency Use slightly higher quantity of external lubricant equal to amount of octyltin mercaptide stabilizer	Rigid calendering and extrusion
SONGSTAB TM MT-830 Mono, Dimethyltin mercaptide and sulfide complex LQ	1.0 ~ 2.0	Improved version of MT-800 Great performance effect to the long-term heat-stability Good heat-stability with smaller amounts Superior heat-stability ensures remarkably low carbonization during extrusion	Rigid calendering and extrusion

Auxiliary Stabilizers and Lubricants

	Dosage (PHR)	Characteristics	Applications	
SONGSTAB™ Pi-311 Organophosphite compound LQ	0.3 ~ 1.0	Transparency and color finish are improvable when used with metallic soaps Good weatherability Sulfide contamination is preventable Suitable as antioxidant stabilizer for standard plastics	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ E-700 Epoxidized soybean oil LQ	0.0 ~ 5.0	No toxic auxiliary stabilizer Acts synergistically with BZ or CZ stabilizers to increase heat stability Max. recommended amount 3.0 PHR (risk of bleeding)	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ BS Butyl stearate LQ	0.5 ~ 1.5	Suitable as internal lubricant Excellent compatibility with metallic soaps and organotin stabilizers Fast gelling properties	Calendering and extrusion	
SONGSTAB™ AC-215P Acrylic copolymer complex LQ	0.5 ~ 1.5	Fine uniform cell structure and large blow molding ratio when used with foams kicker (stabilizer) such as BZ-191	Plastisols for blow molding (artificial leathers, wall papers)	
SONGSTAB™ SL-29 Fatty acid ester and wax complex PW	0.3 ~ 1.5	Excellent external lubricant complex Good processability for rigid PVC Rigid calendering for transparent products	Rigid calendering	
SONGSTAB™ SL-31 Fatty acid ester and PE wax complex PW	3.0 ~ 4.0	Excellent external lubricant complex for CPVC pipes Good processability for CPVC	CPVC pipes	
SONGSTAB™ SL-40 Fatty acid ester and wax complex PW	0.3 ~ 1.5	 Excellent external lubricant complex Good processability for rigid PVC Rigid calendering for transparent products 		
SONGSTAB™ SL-101 Fatty acid ester and wax complex PW	0.3 ~ 1.5	 Excellent internal lubricant complex Good processability for rigid PVC Rigid calendering and extrusion for transparent products Rigid calendering a extrusion 		



	Dosage (PHR)	Characteristics	Applications	
SONGSTAB™ BP-251S Complex of Ba-Zn compounds and lubricants PW	0.3 ~ 1.5	 Excellent lubricity Excellent compatibility with BZ-150T Semi-rigid or flexible calendering and extruding for transparent products 	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ BP-252S Complex of Ba-Zn compounds and lubricants PW	0.3 ~ 0.7	 Excellent lubricity Excellent compatibility with BZ-150T Good whiteness obtained when used with TiO₂ 	Flexible, semi-rigid calendering and extrusion	
SONGSTAB™ BP-275S Complex of Ca-Zn compounds and lubricants PW	0.2 ~ 0.7	Excellent color resistance Excellent compatibility with BZ-170T and BZ-177T Good whiteness obtained when used with TiO ₂	Flexible, semi-rigid calendering and extrusion	



Antioxidants and UV Stabilizers for PVC

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)	
SONGNOX® 1010 Tetrakis[methylene-3-(3,5-ditertbutyl-4-hydroxyphenyl) propionate] methane CAS NO. 6683-19-8 PW, FF, DF	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1178	110.0 ~ 125.0	Squalane < 0.05	353 5% 370 10% 425 50%	
SONGNOX® 1076 Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate CAS NO. 2082-79-3 PW, CP, SB, LQ	H0. + 0	531	50.0 ~ 55.0	Squalane 0.5 n-Hexane > 50.0 Acetone > 50.0 Ethanol < 0.1	330 5% 347 10% 387 50%	
SONGNOX® 2450 Triethylene glycol-bis-3- (3-tert-butyl-4-hy- droxy-5-methylphenyl) propionate CAS NO. 36443-68-2 PW, FF, DW	HO TO	587	76.0 ~ 80.0	Squalane < 0.05	326 5% 345 10% 396 50%	
SONGNOX® 1680 Tris(2,4-di-tert-butylphenyl) phosphite CAS NO. 31570-04-4 PW, FF	A A A A A A A A A A A A A A A A A A A	647	181.0 ~ 187.0	Squalane < 0.05 n-Hexane 10.0 Acetone 1.3 Ethanol < 0.1 Toluene 25.0 Xylene 24.0 Ethyl acetate 5.0	286 5% 305 10% 362 50%	
SONGSORB® 1000 2-(2'-hydroxy-5'-methylphenyl) benzotriazole CAS NO. 2440-22-4 PW	HO N	225	128.0 ~ 132.0	Squalane < 0.05 n-Hexane < 0.1 Acetone 3.0 Ethanol < 0.1 Toluene 7.1 Xylene 6.1 Ethyl acetate 5.1	225 5% 242 10% 289 50%	
SABO®STAB UV 70 Bis(2,2,6,6-tetramethyl-4- piperidinyl) sebacate CAS NO. 52829-07-9 GR	HN O NH	481	81.0 ~ 85.0	Squalane < 0.05	249 5% 264 10% 301 50%	
SABO®STAB UV 94 1,6-hexanediamine, N,N'-bis (2,2,6,6-tetramethyl-4- piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5- triazine, reaction products with 2,4,4-trimethyl-2- pentanamine CAS NO. 70624-18-9 Bead	H N N N N N N N N N N N N N N N N N N N	2000 ~ 3100	(Softening) 100.0 ~ 135.0	Squalane < 0.05 n-Hexane 6.0 Acetone > 50.0 Ethanol < 0.1 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	403 5% 426 10% 472 50%	



Plasticizers

	Color (APHA)	Acid Value (mgKOH/g)	Heat Loss (125°C 3hours)	Volume Resis- tivity (30°C)	Refractive Index (25°C)	Viscosity (c p s/25°C)	Features
SONGCIZER™ DOA Di(2-ethylhexyl) adipate CAS NO. 103-23-1 LQ	< 50	< 0.1	< 0.1	> 1 × 10 ¹¹	1444 ~ 1450	_	Cold resistant Good compatibility
SONGCIZER™ TOTM Tri-2-ethylhexyltrimellitate CAS NO. 3319-31-1 VL	< 120	< 0.2	< 0.1	> 5 × 10 ¹¹	1481 ~ 1487	_	Heat resistant Low volatility Migration resistance
SONGCIZER™ P-900 2-ethyl hexyl alcohol CAS NO. 1574656-80-6 VL	< 500	< 3.0	< 0.1	-	-	500 ~1500	No phthalate Medium viscosity Migration resistant
SONGCIZER™ P-1500 Polydi(2-ethylhexyl) glycoladipate CAS NO. 3319-31-1 VL	< 300	< 1.0	< 0.5	-	1454 ~ 1460	100 ~ 200	No phthalate Low viscosity
SONGCIZER™ P-2600 Polydi(2-ethylhexyl) glycoladipate CAS NO. 73018-26-5 VL	< 300	< 2.0	< 0.5	_	1462 ~ 1468	2700 ~ 3500	No phthalate Medium viscosity
SONGCIZER™ P-2600S 2-ethyl hexyl alcohol CAS NO. 1574656-80-6 VL	< 500	< 3.0	< 0.1	-	-	500 ~ 1500	No phthalate Medium viscosity
SONGCIZER™ P-2700 Polydi(2-ethylhexyl) glycoladipate CAS NO. 73018-26-5 VL	< 300	< 2.0	< 0.5	-	1466 ~ 1467	4000 ~ 6000	No phthalate High viscosity Migration resistant
SONGCIZER™ P-2800S Iso-nonyl alcohol CAS NO. 1404200-65-2 VL	< 400	< 2.0	< 0.5	_	1466 ~ 1467	3000 ~ 6500	No phthalate High viscosity Odorless
SONGCIZER™ P-3000 Polydi(2-ethylhexyl) glycoladipate CAS NO. 63149-79-1 VL	< 300	< 2.0	< 0.5	-	1462 ~ 1468	2000 ~ 3200	No phthalate Medium viscosity Migration resistant

Standard Packaging

• PVC Stabilizers, Liquids: 200 kg Steel Drum

1000 kg IBC

• PVC Stabilizers, Solids: 10 kg Paper Bag

15 kg Paper Bag 20 kg Paper Bag 500 kg Big Bag

• Organo-tin Stabilizers: 200 kg Steel Drum

1000 kg IBC

• Plasticizers, Liquids: 200 kg Steel Drum

20 MT ISO Tank

Key to Abbreviations of Physical Forms

• **PW:** Powder • **DW:** Dispersion

SB: Semi BeadSL: SolidMB: Micro BeadsFC: Fusion Crystal

• **FF:** Free Flow • **LQ:** Liquid or Molten

• **BD:** Beads

• **DF:** Dust Free Flow

• **CP:** Crystalline Powder

• PS: Pastilles

• GR: Granule

• FG: Fine Grind

• VL: Viscous Liquid





About SONGWON Industrial Group

SONGWON, which was founded in 1965 and is headquartered in Ulsan, South Korea, is a leader in the development, production and supply of specialty chemicals.

The second largest manufacturer of polymer stabilizers worldwide, SONGWON operates group companies all over the world, offering the combined benefits of a global framework and readily accessible local organizations.







For further information, please go to:

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SONGWON provides customers with warranties and representations as to the chemical or technical specifications, compositions and/or the suitability for use for any particular purpose exclusively in individual written agreements.

The facts and figures contained herein have been carefully compiled to the best of SONGWON's knowledge but are essentially intended for informational purposes only.

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