



Antioxidants and
light stabilizers

Product range selection guide

Phenolic Antioxidants

	ABS	PC/ABS	PC	PU Fibers	Polyamides	Polyesters	Polyethylene	Polypropylene	Polystyrene	Polyurethane	PVC	Elastomers	Acrylics	Polyacetal	TPU
SONGNOX® 1010					■	■	■	■				■			■
SONGNOX® 1076	■	■	■				■		■	■	■	■	■		
SONGNOX® 1135						■			■			■	■		
SONGNOX® 2450	■			■	■	■		■	■	■			■	■	■
SONGNOX® 3114							■	■							
SONGNOX® 1035						■	■								
SONGNOX® 1098				■	■										
SONGNOX® 1330					■	■	■	■				■			
SONGNOX® 5650												■			
SONGNOX® 1024				■		■	■							■	

Aminic Antioxidants

	ABS	PC/ABS	PC	PU Fibers	Polyamides	Polyesters	Polyethylene	Polypropylene	Polystyrene	Polyurethane	PVC	Elastomers	Acrylics	Polyacetal	TPU
SONGNOX® 5057									■						
SONGNOX® 5067									■						

Phosphite Antioxidants

	ABS	PC/ABS	PC	PU Fibers	Polyamides	Polyesters	Polyethylene	Polypropylene	Polystyrene	Polyurethane	PVC	Elastomers	Acrylics	Polyacetal	TPU
SONGNOX® 1680	■	■	■	■	■	■	■	■					■	■	■
SONGNOX® 6260				■		■	■				■				
SONGNOX® 6280				■		■	■				■				
SONGNOX® PQ	■	■	■	■		■	■					■			
SONGNOX® 9228		■	■	■	■	■	■	■					■		
SONGNOX® 9228T						■	■								

Thioester Antioxidants

	ABS	PC/ABS	PC	PU Fibers	Polyamides	Polyesters	Polyethylene	Polypropylene	Polystyrene	Polyurethane	PVC	Elastomers	Acrylics	Polyacetal	TPU
SONGNOX® DSTDP	■						■	■				■			
SONGNOX® DLTDP	■						■	■			■	■			
SONGNOX® DMTDP	■						■	■				■			
SONGNOX® DTDP	■										■	■			

■ Recommended ■ Suitable

Hindered Amine Light Stabilizers (HALS)

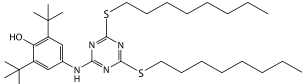
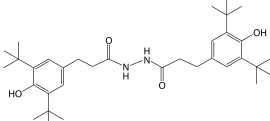
	ABS	PC/ABS PC	PU Fibers	Polyamides	Polyesters	Polyethylene	Polypropylene	Polystyrene	Polyurethane	PVC	Elastomers	Acrylics	Polyacetal TPU
SONGSORB® 2920	■			■			■	■	■	■	■		■
SONGSORB® 7700	■			■	■	■	■			■	■		■
SONGSORB® 3853				■		■	■		■				■
SONGSORB® 9440	■			■		■	■		■	■			■
SONGSORB® 6220			■	■	■	■	■			■	■		■
SONGSORB® 7830						■	■						
SONGSORB® 2020				■		■	■		■	■	■		■
SONGSORB® 1190	■	■		■	■	■	■	■	■	■	■	■	■

UV Absorbers (UVAs)

	ABS	PC/ABS PC	PU Fibers	Polyamides	Polyesters	Polyethylene	Polypropylene	Polystyrene	Polyurethane	PVC	Elastomers	Acrylics	Polyacetal TPU
SONGSORB® 1000	■	■			■		■		■	■	■		■
SONGSORB® 2340		■	■	■	■	■					■	■	■
SONGSORB® 3260						■	■				■	■	
SONGSORB® 3290	■	■	■			■		■		■	■		■
SONGSORB® 3600		■	■	■	■							■	■
SONGSORB® 5710								■	■		■		■
SONGSORB® 7120						■	■						
SONGSORB® 2908						■	■		■				
SONGSORB® 8100					■	■			■				■
SONGSORB® 3120			■	■					■				■
SONGSORB® 1577		■	■		■							■	
SONGSORB® 1164			■		■	■						■	
SONGSORB® B5075								■					■

Phenolic Antioxidants

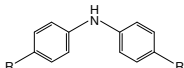
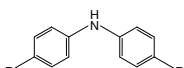
		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)	
SONGNOX® 1010 Tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] methane CAS NO. 6683-19-8 PW, FF, DF		1178	110.0 ~ 125.0	Squalane < 0.05 n-Hexane < 0.1 Acetone < 50.0 Ethanol < 0.1 Toluene 48.0 Xylene 24.2 Ethyl acetate > 50.0	353	5%
SONGNOX® 1076 Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate CAS NO. 2082-79-3 CP, SB, LQ		531	50.0 ~ 55.0	Squalane 0.5 n-Hexane > 50.0 Acetone > 50.0 Ethanol < 0.1 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	330	5%
SONGNOX® 1135 Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters CAS NO. 125643-61-0 LQ		390	–	Squalane > 50.0 n-Hexane > 50.0 Acetone > 50.0 Ethanol > 50.0 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	257	5%
SONGNOX® 2450 Triethylene glycol-bis-3-(3-tert-butyl-4-hydroxy-5-methylphenyl)propionate CAS NO. 36443-68-2 PW, FF, DW		587	76.0 ~ 80.0	Squalane < 0.05 n-Hexane < 0.1 Acetone > 50.0 Ethanol 9.0 Toluene 10.0 Xylene 0.5 Ethyl acetate > 50.0	326	5%
SONGNOX® 3114 Tris(3,5-di-tert-butyl-4-hydroxybenzyl)isocyanurate CAS NO. 27676-62-6 PW, FF		784	218.0 ~ 223.0	Squalane < 0.05 n-Hexane < 0.1 Acetone 45.0 Ethanol < 0.1 Toluene 22.0 Xylene 21.0 Ethyl acetate 45.0	330	5%
SONGNOX® 1035 Thiodiethylenebis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] CAS NO. 41484-35-9 PW, FF		643	> 65.0	Squalane < 0.05 n-Hexane 0.8 Acetone > 50.0 Ethanol 1.1 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	322	5%
SONGNOX® 1098 N,N'-hexamethylenebis(3,5-di-tert-butyl-4-hydroxyhydrocinnamamide) CAS NO. 23128-74-7 PW, FF		637	156.0 ~ 162.0	Squalane < 0.05 n-Hexane < 0.1 Acetone 2.5 Ethanol 5.5 Toluene < 0.1 Xylene < 0.1 Ethyl acetate 0.7	336	5%
SONGNOX® 1330 1,3,5-trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl)benzene CAS NO. 1709-70-2 PW, FF		775	241.0 ~ 247.0	Squalane < 0.05 n-Hexane 0.9 Acetone 22.0 Ethanol < 0.1 Toluene 30.0 Xylene 22.0 Ethyl acetate 36.0	368	5%

<p>SONGNOX® 5650</p> <p>2,6-di-tert-butyl-4-(4,6-bis-(octylthio)-1,3,5-triazin-2-ylamino) phenol</p> <p>CAS NO. 991-84-4</p> <p>PW, GR</p>		589	94.0 ~ 96.0	<p>Squalane < 0.05</p> <p>n-Hexane 6.50</p> <p>Acetone > 50.0</p> <p>Ethanol < 0.1</p> <p>Toluene > 50.0</p> <p>Xylene > 50.0</p> <p>Ethyl acetate > 50.0</p>	<p>348 5%</p> <p>362 10%</p> <p>401 50%</p>
<p>SONGNOX® 1024</p> <p>1,2-bis(3,5-di-tert-butyl-4-hydroxyhydrocinnamoyl) hydrazine</p> <p>CAS NO. 32687-78-8</p> <p>PW, FF, FG</p>		553	221.0 ~ 232.0	<p>Squalane < 0.05</p> <p>n-Hexane < 0.1</p> <p>Acetone 5.0</p> <p>Ethanol 1.0</p> <p>Toluene < 0.1</p> <p>Xylene < 0.1</p> <p>Ethyl acetate 0.6</p>	<p>307 5%</p> <p>319 10%</p> <p>359 50%</p>

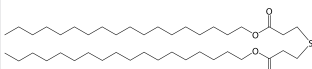
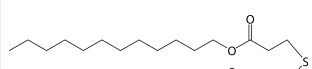
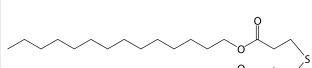
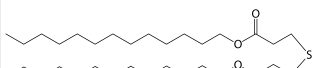


RELIABLE
Protection

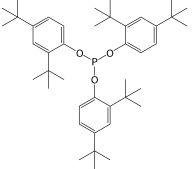
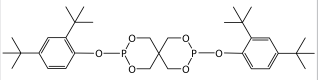
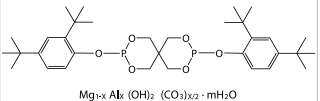
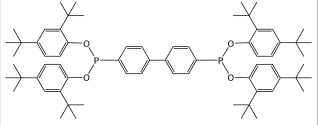
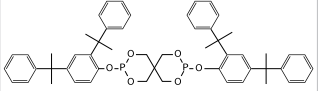
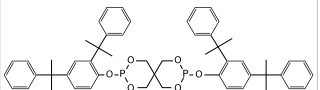
Aminic Antioxidants

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
SONGNOX® 5057 Mixture of butylated & octylated diphenylamine CAS NO. 68411-46-1 LQ		Mixture of butyl, octyl diphenylamine	–	Squalane > 50 n-Hexane > 50 Acetone > 50 Ethanol > 50 Toluene > 50 Xylene > 50 Ethyl acetate > 50	235 5% 255 10% 320 50%
SONGNOX® 5067 Bis(nonylphenyl)amine CAS NO. 36878-20-3 LQ	 R= nonyl	422	–	n-Hexane > 50 Acetone > 50 Ethanol > 50 Toluene > 50 Xylene > 50 Ethyl acetate > 50	266 5% 287 10% 350 50%

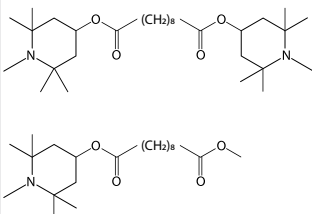
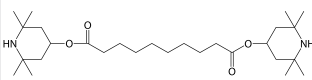
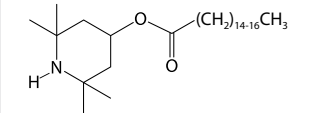
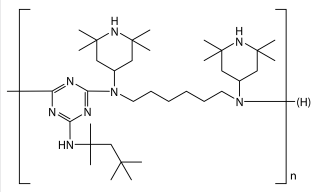
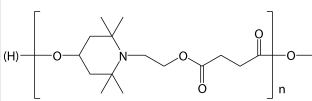
Thioester Antioxidants

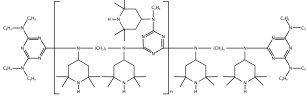
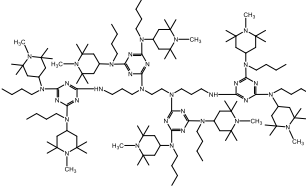
		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
SONGNOX® DSTDP Distearyl thiodipropionate CAS NO. 693-36-7 PW, SB		683	63.5 ~ 68.5	Squalane 0.1 n-Hexane 0.1 Acetone < 0.1 Ethanol < 0.1 Toluene 4.6 Xylene 4.1 Ethyl acetate < 0.1	324 5% 348 10% 389 50%
SONGNOX® DLTPD Dilauryl thiodipropionate CAS NO. 123-28-4 PW, SB, LQ		515	38.0 ~ 41.0	Squalane 2.6 n-Hexane > 50.0 Acetone > 50.0 Ethanol 0.3 Toluene > 50.0 Xylene 46.0 Ethyl acetate 29.0	284 5% 313 10% 361 50%
SONGNOX® DMTDP Dimyristyl thiodipropionate CAS NO. 16545-54-3 PW, SB		571	49.0 ~ 54.0	Squalane < 0.05 n-Hexane 8.0 Acetone 2.0 Ethanol < 0.1 Toluene 41.0 Xylene 33.0 Ethyl acetate 4.1	296 5% 316 10% 367 50%
SONGNOX® DTDTP Ditridecyl thiodipropionate CAS NO. 10595-72-9 LQ		543	–	Squalane > 50.0 n-Hexane > 50.0 Acetone > 50.0 Ethanol 5.0 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	300 5% 331 10% 374 50%

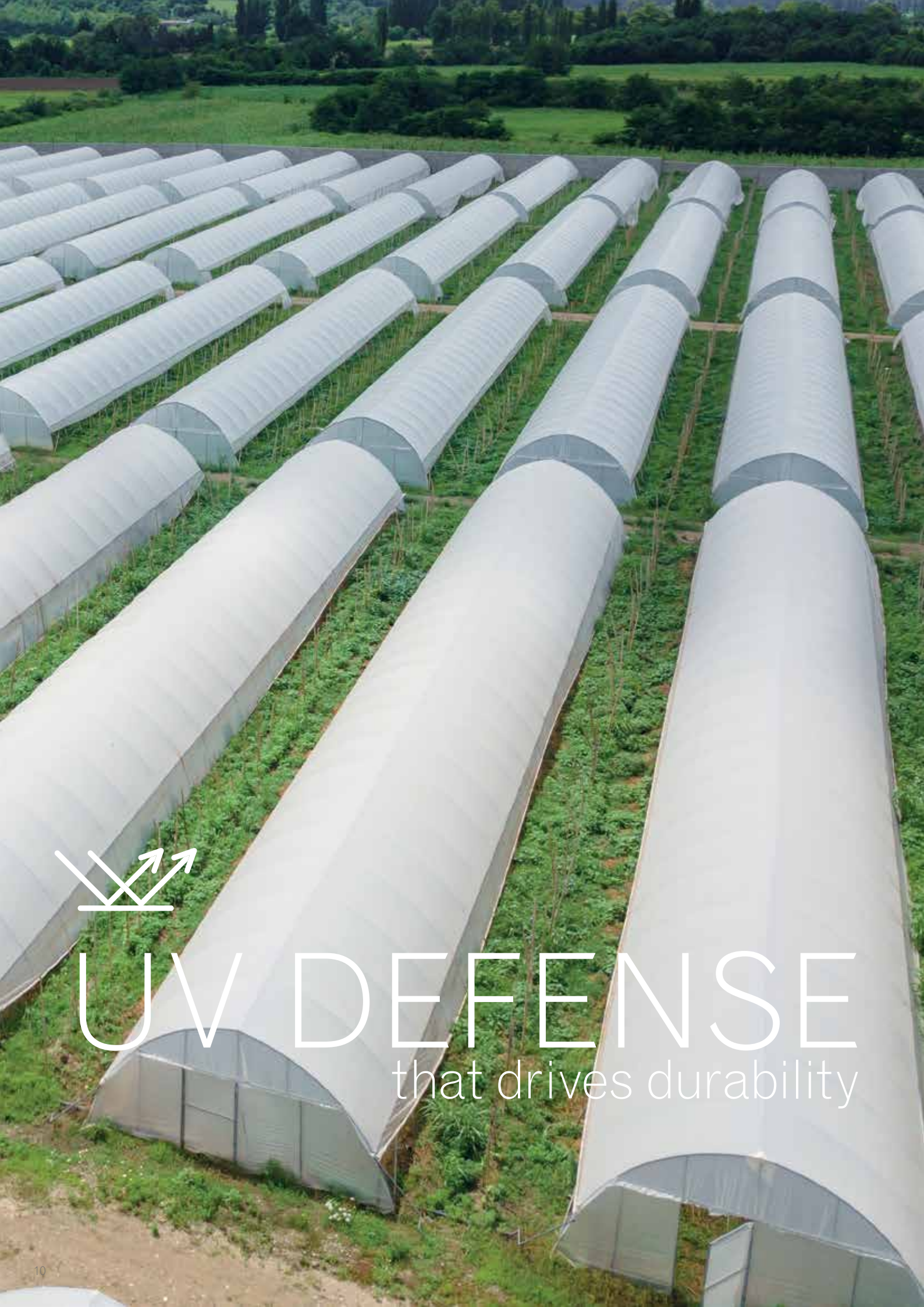
Phosphite Antioxidants

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
SONGNOX® 1680 Tris(2,4-di-tert-butylphenyl) phosphite CAS NO. 31570-04-4 PW, FF		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%
SONGNOX® 6260 Bis(2,4-di-tert-butylphenyl) pentaerythritol diphosphite CAS NO. 26741-53-7 PW, FF		605	170.0 ~ 180.0	Squalane < 0.05 n-Hexane 2.0 Acetone 3.0 Ethanol < 0.1 Toluene 26.0 Xylene 17.0 Ethyl acetate 0.7	306 5% 329 10% 382 50%
SONGNOX® 6280 SONGNOX® 6260: Mg, Al talcrite = 93 : 7 CAS NO. 26741-53-7, 11097-59-9 PW, FF	 $Mg_{93}Al_7(OH)_2(CO_3)_{32} \cdot mH_2O$	–	–	–	–
SONGNOX® PQ Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl) phenol CAS NO. 119345-01-6 PW, SB		1035	75.0 ~ 100.0	Squalane 0.1 n-Hexane > 50.0 Acetone 9.0 Ethanol < 0.1 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	296 5% 325 10% 423 50%
SONGNOX® 9228 Bis (2,4-dicumylphenyl) pentaerythritol diphosphite CAS NO. 154862-43-8 PW, FF		852	>228.0	n-Hexane < 0.1 Acetone < 0.1 Ethanol < 0.1 Toluene 4.0 Xylene 5.0 Ethyl acetate < 0.1	365 5% 384 10% 414 50%
SONGNOX® 9228T Bis (2,4-dicumylphenyl) pentaerythritol diphosphite plus 1% triisopropanol amine CAS NO. 154862-43-8 PW		852	>228.0	n-Hexane < 0.1 Acetone < 0.1 Ethanol < 0.1 Toluene 4.0 Xylene 5.0 Ethyl acetate < 0.1	365 5% 384 10% 414 50%

Hindered Amine Light Stabilizers (HALS)

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
<p>SONGSORB® 2920</p> <p>Bis (1,2,2,6,6-pentamethyl-4-piperidiny)-sebacate and 1-(Methyl)-8-(1,2,2,6,6-pentamethyl-4-piperidiny)-sebacate</p> <p>CAS NO. 41556-26-7 & 82919-37-7</p> <p>LQ</p>		509 370	–	<p>n-Hexane > 50.0</p> <p>Acetone > 50.0</p> <p>Ethanol > 50.0</p> <p>Toluene > 50.0</p> <p>Xylene > 50.0</p> <p>Ethyl acetate > 50.0</p>	<p>220 5%</p> <p>242 10%</p> <p>304 50%</p>
<p>SONGSORB® 7700</p> <p>Bis(2,2,6,6-tetramethyl-4-piperidiny) sebacate</p> <p>CAS NO. 52829-07-9</p> <p>PW, DF</p>		481	81.0 ~ 85.0	<p>n-Hexane < 0.1</p> <p>Acetone 35.0</p> <p>Ethanol > 50.0</p> <p>Toluene > 50.0</p> <p>Xylene 48.0</p> <p>Ethyl acetate 38.0</p>	<p>245 5%</p> <p>261 10%</p> <p>302 50%</p>
<p>SONGSORB® 3853</p> <p>2,2,6,6-tetramethylpiperidine-4-yl-hexadecanoate and 2,2,6,6-tetramethylpiperidine-4-yl-octadecanoate</p> <p>CAS NO. 167078-06-0 / 86403-32-9 (EU)</p> <p>SL</p>		–	> 29.0	<p>n-Hexane 0.2</p> <p>Acetone 9.0</p> <p>Ethanol 8.0</p> <p>Toluene 27.0</p> <p>Xylene 23.0</p> <p>Ethyl acetate 12.0</p>	<p>233 5%</p> <p>250 10%</p> <p>292 50%</p>
<p>SONGSORB® 9440</p> <p>1,6-hexanediamine, N,N'-bis (2,2,6,6-tetramethyl-4-piperidiny)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with 2,4,4-trimethyl-2-pentanamine</p> <p>CAS NO. 70724-18-9 / 71878-19-8</p> <p>SB</p>		2000 ~3100	(Softening) 100.0 ~ 135.0	<p>n-Hexane 6.0</p> <p>Acetone > 50.0</p> <p>Ethanol < 0.1</p> <p>Toluene > 50.0</p> <p>Xylene > 50.0</p> <p>Ethyl acetate > 50.0</p>	<p>407 10%</p> <p>459 50%</p>
<p>SONGSORB® 6220</p> <p>Butanedioic acid, 1,4-dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidine-ethanol</p> <p>CAS NO. 65447-77-0</p> <p>SB</p>		3100 ~ 4000	–	<p>n-Hexane < 0.1</p> <p>Acetone 40.0</p> <p>Ethanol < 0.1</p> <p>Toluene 15</p> <p>Xylene 35.0</p> <p>Ethyl acetate 21.0</p>	<p>333 10%</p> <p>360 50%</p>

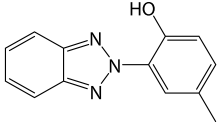
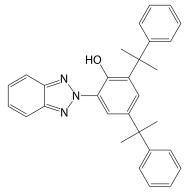
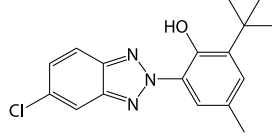
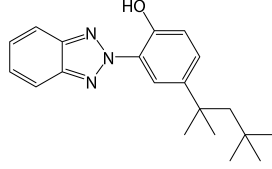
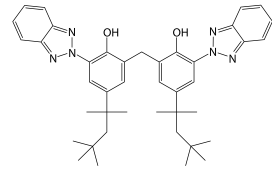
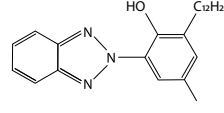
<p>SONGSORB® 7830</p> <p>Mixture of SONGSORB® 9440 and SONGSORB® 6220</p> <p>SB</p>	<p>SONGSORB® 9440 : SONGSORB® 6220 = 1:1</p>	<p>–</p>	<p>–</p>	<p>–</p>	<p>–</p>
<p>SONGSORB® 2020</p> <p>1,6-hexanediamine, N,N'-bis (2,2,6,6-tetramethyl-4-piperidiny)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-1-butanamine and N-butyl-2,2,6,6-tetramethyl-4-piperidinamine</p> <p>CAS NO.192268-64-7</p> <p>SB</p>		<p>2600 ~ 3400</p>	<p>120.0 ~ 150.0</p>	<p>n-Hexane > 50.0 Acetone > 50.0 Ethanol > 50.0</p>	<p>431 10% 466 50%</p>
<p>SONGSORB® 1190</p> <p>1,3,5-triazine-2,4,6-triamine, N2,N2"-1,2-ethanediylbis [N2-[3-[[4,6-bis[butyl (1,2,2,6,6-pentamethyl-4-piperidiny)amino]-1,3,5-triazin-2-yl]amino]propyl]-N',N"-dibutyl-N',N"-bis (1,2,2,6,6-pentamethyl-4-piperidiny)-</p> <p>CAS NO. 106990-43-6</p> <p>SB</p>		<p>2286</p>	<p>115.0 ~ 150.0</p>	<p>n-Hexane < 0.1 Acetone 0.2 Ethanol < 0.1 Toluene 25.0 Xylene 24.0 Ethyl acetate 0.9</p>	<p>427 10% 457 50%</p>



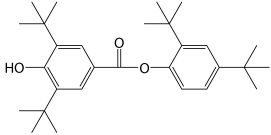
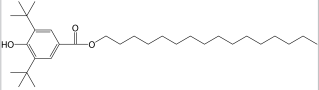
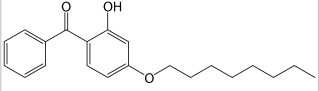
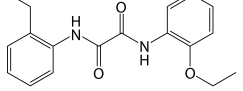
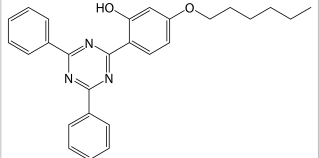
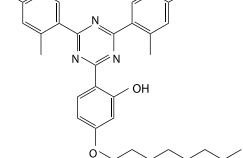
UV DEFENSE

that drives durability

UV Absorbers (UVAs)

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
SONGSORB® 1000 2-(2'-hydroxy-5'-methylphenyl) benzotriazole CAS NO. 2440-22-4 PW		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%
SONGSORB® 2340 2-[2-hydroxy-3,5-di(1,1-dimethylbenzyl) phenyl]-2H-benzotriazole CAS NO. 70321-86-7 PW, FF		448	137.0 ~ 141.0	Squalane < 0.05 n-Hexane < 0.1 Acetone 2.5 Ethanol < 0.1 Toluene 18.1 Xylene 13.1 Ethyl acetate 5.1	337 5% 357 10% 409 50%
SONGSORB® 3260 2-(2'-hydroxy-3'-tert-butyl-5'-methylphenyl)-5-chlorobenzotriazole CAS NO. 3896-11-5 PW		316	138.0 ~ 141.0	Squalane 0.7 n-Hexane 1.5 Acetone 1.5 Ethanol 0.1 Toluene 10.4 Xylene 11.8 Ethyl acetate 3.2	217 5% 232 10% 287 50%
SONGSORB® 3290 2-(2H-benzotriazole-2-yl)-4-(1,1,3,3-tetramethylbutyl) phenol CAS NO. 3147-75-9 PW, FF		323	103.0 ~ 105.0	Squalane 0.3 n-Hexane 6.0 Acetone 11.5 Ethanol < 0.1 Toluene 44.7 Xylene 49.0 Ethyl acetate 21.3	223 5% 243 10% 302 50%
SONGSORB® 3600 Bis[2-hydroxy-5-tert-octyl-3-(benzotriazole-2-yl)phenyl]methane CAS NO. 103597-45-1 PW, FF		659	192.0 ~ 198.0	Squalane < 0.05 n-Hexane < 0.1 Acetone < 0.1 Ethanol < 0.1 Toluene 3.7 Xylene 2.6 Ethyl acetate 0.4	369 5% 393 10% 449 50%
SONGSORB® 5710 2-(2H-Benzotriazol-2-yl)-4-methyl-(5 or 6)-dodecyl phenol CAS NO. 125304-04-3 / 23328-53-2 (KR) LQ		395	—	n-Hexane > 50 Acetone > 50 Ethanol 2.0 Toluene > 50 Xylene > 50 Ethyl acetate > 50	238 5% 254 10% 300 50%

UV Absorbers (UVAs)

		Molecular Weight	Melting Range (°C)	Solubility (g/100 g solvent at 25°C)	TGA (°C, % mass loss)
SONGSORB® 7120 2,4-di-tert-butylphenyl-4'-hydroxy-3',5'-di-tert-butylbenzoate CAS NO. 4221-80-1 PW		439	194.0 ~ 197.0	Squalane < 0.05 n-Hexane 0.8 Acetone 11.0 Ethanol 0.3 Toluene 16.4 Xylene 10.0 Ethyl acetate 13.2	252 5% 268 10% 318 50%
SONGSORB® 2908 Hexadecyl-3,5-di-tert-butyl-4-hydroxybenzoate CAS NO. 67845-93-6 PW		475	55.0 ~ 65.0	Squalane 0.9 n-Hexane 35.0 Acetone 14.0 Ethanol 0.6 Toluene > 50.0 Xylene > 50.0 Ethyl acetate 26.0	271 5% 288 10% 349 50%
SONGSORB® 8100 2-hydroxy-4-n-octoxybenzophenone CAS NO. 1843-05-6 PW		326	> 47.0	Squalane 0.3 n-Hexane 18.0 Acetone > 50.0 Ethanol 1.0 Toluene > 50.0 Xylene > 50.0 Ethyl acetate > 50.0	280 5% 297 10% 344 50%
SONGSORB® 3120 2-ethyl-2'-ethoxy-oxanilide CAS NO. 23949-66-8 PW		312	124.0 ~ 128.0	Squalane < 0.01 n-Hexane < 0.1 Acetone < 5.0 Ethanol < 0.2 Toluene 7.0 Xylene 4.5 Ethyl acetate 5.0	246 5% 262 10% 301 50%
SONGSORB® 1577 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-hexyloxyphenol CAS NO. 147315-50-2 PW, FF		425	147.0 ~ 151.0	Squalane < 0.05 n-Hexane < 0.1 Acetone 0.2 Ethanol < 0.1 Toluene 6.3 Xylene 5.5 Ethyl acetate 0.8	313 5% 329 10% 378 50%
SONGSORB® 1164 2-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-(octyloxy) phenol CAS NO. 2725-22-6 PW, FF		509	88.0 ~ 93.0	n-Hexane 0.6 Acetone 0.2 Ethanol 0.1 Toluene 29.1 Xylene 21.8 Ethyl acetate 2.6	349 5% 371 10% 419 50%

Binary Blends

Product Name	SONGNOX® 1680	SONGNOX® 1010	SONGNOX® 1076	SONGNOX® 3114	Physical Forms
SONGNOX® 11B	1	1	0	0	PW, FF
SONGNOX® 21B	2	1	0	0	PW, FF
SONGNOX® 31B	3	1	0	0	PW, FF
SONGNOX® 41B	4	1	0	0	PW, FF
SONGNOX® 117B	1	0	1	0	PW, FF
SONGNOX® 217B	2	0	1	0	PW, FF
SONGNOX® 417B	4	0	1	0	PW, FF
SONGNOX® 147B	1	0	4	0	PW, FF
SONGNOX® 311B	1	0	0	1	PW, FF
SONGNOX® 321B	2	0	0	1	PW, FF

The numbers shown in the tables refer to the ratios of the ingredients in the binary blends.

Liquid Blends

Product Name	SONGNOX® 1135	SONGNOX® 5057	SONGNOX® 5710	SONGNOX® 2920	Physical Forms
SONGNOX® 5721	2	1			LQ
SONGSORB® B5075	1		2	2	LQ

The numbers shown in the tables refer to the ratios of the ingredients in the blends.

One Pack System Blends (OPS)

SONGNOX® OPS (One Pack Systems) are customized additive blends that are available in different physical forms. OPS products increase operational efficiency and can lower overall additivition costs.

SONGXTEND® – Application-Specific Stabilizers

- **SONGXTEND® 2124:**
High heat stabilization in polypropylene-based automotive applications
- **SONGXTEND® 1301:**
Stabilizer for expanded and extruded polystyrene containing polymeric flame retardants
- **SONGXTEND® 2721:**
Top-up, quality enhancing stabilization system for more sustainable PP recycled resins

Standard Packaging

- **Antioxidants, solids:** 20 kg PE bag
(20 kg aluminum coated bags for SONGNOX® 6260, SONGNOX® 6280, SONGNOX® 9228, SONGNOX® 9228T and SONGNOX® PQ)
500 kg big bag
for US and selected products only: 50 kg fiber drum
- **Antioxidants, liquids:** 200 kg steel drum
900 kg IBC
20 MT ISO tank
- **Thioesters:** 20 kg PE bag
500 kg big bag
- **Hindered amine light stabilizers:** 20 kg PE bag
500 kg big bag
- **UV absorbers, solids:** 20 kg bag in a carton
25 kg bag in a carton
- **UV absorbers, liquids:** 20 kg HDPE drum
200 kg Steel drum

Key to Abbreviations of Physical Forms

- **PW:** Powder
- **SB:** Semi-Beads
- **SL:** Solid
- **FF:** Free Flow
- **DW:** Dispersion
- **LQ:** Liquid or Molten
- **DF:** Dust Free Flow
- **CP:** Crystalline Powder
- **GR:** Granules
- **FG:** Fine Grind

Transport and Storage

As a general guideline, we recommend storing the products mentioned in this brochure in their original sealed containers in a cold and dry place. For more detailed information on a specific product, please refer to the corresponding **Technical Data Sheet**.

By law, a number of chemical products must be labeled in respect of transport, storage and handling. Thus corresponding care is a prerequisite for their appropriate handling. Furthermore, local legal regulations may apply.



Detailed information is given in the respective **Safety Data Sheets**.

About SONGWON

A leader in the development, production and supply of specialty chemicals, SONGWON's products touch your life every day, everywhere. Since 1965, we've been driving innovation, partnering for progress and paving the way for a better more sustainable tomorrow with 360° customized solutions.

Headquartered in South Korea, SONGWON is one of the largest manufacturer of polymer stabilizers worldwide. With Group companies and world-class manufacturing facilities across the globe, we are dedicated to providing customers in over 60 countries with high-performance products that meet their individual needs and the best levels of service.

For further information, please go to:
www.songwon.com

SONGWON INDUSTRIAL GROUP



For further information, please contact:

techservice@songwon.com

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.

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