



TPP
Polyester Diols

A comprehensive range of products that provide comfort and convenience in countless ways

SONGWON offers an extensive range of polymers. "Solution" (thermosetting and/or thermoplastic) polyurethanes (PUs), thermoplastic polyurethanes (TPUs) and polyester diols, based on esterification technology are used in ink binders, adhesives, and other applications requiring solution PUs and TPUs.

Super absorbent polymers (SAPs) are suitable for applications where high water absorbance and excellent stability, regardless of heat and light, is required.

It's all about **the chemistry™**

 **SONGWON**

Polyester Diols

Polyester diols are base materials that allow formulators to produce high-quality polyurethane products.



	Molecular Weight	Material Formation: Dibasic Acid	Material Formation: Glycol	Color (APHA)	Acid Value (mg KOH/g)	Viscosity (cps/75°C)
SONGSTAR™ SS-066 Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	600 ~ 720	Adipic acid	Butanediol	< 100	< 0.5	70 ~ 110
SONGSTAR™ SS-086S Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	810 ~ 890	Adipic acid	Butanediol	< 100	< 0.5	110 ~ 170
SONGSTAR™ SS-106 Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	950 ~ 1050	Adipic acid	Butanediol	< 100	< 0.5	140 ~ 200
SONGSTAR™ SS-106S Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	950 ~ 1050	Adipic acid	Butanediol	< 20	< 0.3	140 ~ 220
SONGSTAR™ SS-156S Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	1480 ~ 1580	Adipic acid	Butanediol	< 20	< 0.3	350 ~ 500
SONGSTAR™ SS-206 Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	1900 ~ 2100	Adipic acid	Butanediol	< 30	< 0.3	650 ~ 800
SONGSTAR™ SS-206S Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	1900 ~ 2100	Adipic acid	Butanediol	< 50	< 0.5	550 ~ 820
SONGSTAR™ SS-306 Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	2200 ~ 3400	Adipic acid	Butanediol	< 200	< 0.5	700 ~ 2400
SONGSTAR™ SS-306S Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	2700 ~ 3300	Adipic acid	Butanediol	< 200	< 1.0	700 ~ 2000
SONGSTAR™ SS-406/406S Poly(1,4-butylene adipate) CAS NO. 25103-87-1 VL (30°C ~ 50°C)	3740 ~ 4310	Adipic acid	Butanediol	< 200	< 0.5	3500 ~ 5500
SONGSTAR™ SS-104 Poly(ethylene adipate) CAS NO. 24938-37-2 VL	950 ~ 1050	Adipic acid	Ethylene glycol	< 100	< 0.5	140 ~ 200

	Molecular Weight	Material Formation: Dibasic Acid	Material Formation: Glycol	Color (APHA)	Acid Value (mg KOH/g)	Viscosity (cps/75°C)
SONGSTAR™ SS-204 Poly(ethylene adipate) CAS NO. 24938-37-2 VL	1850 ~ 2150	Adipic acid	Ethylene glycol	< 100	< 0.5	450 ~ 650
SONGSTAR™ SS-107 Poly(diethylene glycol adipate) CAS NO. 9010-89-3 VL	950 ~ 1050	Adipic acid	Diethylene glycol	< 100	< 0.5	100 ~ 180
SONGSTAR™ SS-078 CAS NO. 25212-06-0 VL	620 ~ 770	Adipic acid	1,6-hexanediol	< 100	< 1.0	65 ~ 95
SONGSTAR™ SS-208 CAS NO. 25212-06-0 VL	1850 ~ 2150	Adipic acid	1,6-hexanediol	< 200	< 1.0	500 ~ 700
SONGSTAR™ SS-205 Poly(propylene glycol adipate) CAS NO. 25101-03-05 VL	1850 ~ 2150	Adipic acid	1,2-propanediol	< 100	< 0.3	400 ~ 600
SONGSTAR™ SS-207 Poly(diethylene glycol adipate) CAS NO. 9010-89-3 VL	1850 ~ 2150	Adipic acid	Diethylene glycol	< 200	< 0.5	350 ~ 540
SONGSTAR™ SS-2040 CAS NO. 9010-89-3 VL	2000 ~ 3000	Adipic acid	Diethylene glycol Trimethylol Propane	< 200	< 1.0	500 ~ 800
SONGSTAR™ SS-304-1 Poly(diethylene glycol ethylene glycol adipate isophthalate) CAS NO. 86713-72-6 VL	2500 ~ 4500	Adipic acid Isophthalic acid	Ethylene glycol Diethylene glycol	< 300	< 0.5	3000 ~ 30000
SONGSTAR™ SS-1060 Poly(2-methyl-1,3-propanediol adipate) CAS NO. 26702-65-8 VL	900~1150	Adipic acid	2-methyl-1,3-propanediol	< 50	< 0.5	190 ~ 270
SONGSTAR™ SS-2068 CAS NO. 25214-15-7 VL	1850 ~ 2150	Adipic acid	Butanediol 1,6-hexanediol	< 100	< 0.5	550 ~ 750
SONGSTAR™ SS-1046 Poly(1,4-butylene ethylene adipate) CAS NO. 26570-73-0 VL (30°C ~ 45°C)	950 ~ 1050	Adipic acid	Ethylene glycol Butandiol	< 100	< 0.5	140 ~ 200
SONGSTAR™ SS-1546 Poly(1,4-butylene ethylene adipate) CAS NO. 26570-73-0 VL (30°C ~ 45°C)	1400 ~ 1600	Adipic acid	Ethylene glycol Butandiol	< 100	< 0.5	300 ~ 400
SONGSTAR™ SS-2046 Poly(1,4-butylene ethylene adipate) CAS NO. 26570-73-0 VL (30°C ~ 45°C)	1850 ~ 2150	Adipic acid	Ethylene glycol Butandiol	< 100	< 0.5	500 ~ 800

	Molecular Weight	Material Formation: Dibasic Acid	Material Formation: Glycol	Color (APHA)	Acid Value (mg KOH/g)	Viscosity (cps/75°C)
SONGSTAR™ SS-3046 Poly(1,4-butylene ethylene adipate) CAS NO. 26570-73-0 VL (30°C ~ 45°C)	2700 ~ 3300	Adipic acid	Ethylene glycol Butandiol	< 100	< 0.5	1200 ~ 2000
SONGSTAR™ SS-4046 Poly(1,4-butylene ethylene adipate) CAS NO. 26570-73-0 VL (30°C ~ 45°C)	3740 ~ 4310	Adipic acid	Ethylene glycol Butandiol	< 200	< 0.5	3200 ~ 3500
SONGSTAR™ SS-1047 Poly(ethylene glycol diethylene glycol adipate) CAS NO. 25214-18-0 VL (10°C ~ 40°C)	950 ~ 1050	Adipic acid	Ethylene glycol Diethylene glycol	< 100	< 0.5	140 ~ 200
SONGSTAR™ SS-1547 Poly(ethylene glycol diethylene glycol adipate) CAS NO. 25214-18-0 VL (10°C ~ 40°C)	1400 ~ 1600	Adipic acid	Ethylene glycol Diethylene glycol	< 100	< 0.5	250 ~ 350
SONGSTAR™ SS-2047 Poly(ethylene glycol diethylene glycol adipate) CAS NO. 25214-18-0 VL (10°C ~ 40°C)	1850 ~ 2150	Adipic acid	Ethylene glycol Diethylene glycol	< 100	< 0.5	400 ~ 600
SONGSTAR™ SS-2045 CAS NO. 26523-14-8 VL	1850 ~ 2150	Adipic acid	Ethylene glycol 1,2-propanediol	< 100	< 0.5	400 ~ 600
SONGSTAR™ SS-20N Poly(neopentylene adipate) CAS NO. 27925-07-1 VL	1900 ~ 2250	Adipic acid	Neopentandiol	< 200	< 1.0	850 ~ 1200
SONGSTAR™ SS-2077 Poly(diethylene glycol adipate isophthalate) CAS NO. 35164-40-0 VL	1850 ~ 2350	Adipic acid Isophthalic acid	Diethylene glycol	< 200	< 0.3	7500 ~ 10000
SONGSTAR™ SS-1080 Poly(3-methyl-1,5-pantandiol adipate) CAS NO. 39751-34-3 VL	800 ~ 1200	Adipic acid	3-methyl-1,5-pantandiol	< 100	< 0.5	93 ~ 140
SONGSTAR™ SS-3080 Poly(3-methyl-1,5-pantandiol adipate) CAS NO. 39751-34-3 VL	2200 ~ 3200	Adipic acid	3-methyl-1,5-pantandiol	< 100	< 0.5	500 ~ 1500
SONGSTAR™ SS-4080S Poly(3-methyl-1,5-pantandiol adipate) CAS NO. 39751-34-3 VL	3800 ~ 4200	Adipic acid	3-methyl-1,5-pantandiol	< 200	< 0.5	1900 ~ 2500

Standard Packaging

- **Polyester Diols:** 200 kg Steel Drum

Key to Abbreviations of Physical Forms

- **PW:** Powder
- **SB:** Semi Bead
- **SL:** Solid
- **FF:** Free Flow
- **DW:** Dispersion
- **MB:** Micro Beads
- **FC:** Fusion Crystal
- **LQ:** Liquid or Molten
- **BD:** Beads
- **DF:** Dust Free Flow
- **CP:** Crystalline Powder
- **PS:** Pastilles
- **GR:** Granule
- **FG:** Fine Grind
- **VL:** Viscous Liquid



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 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.

Dedicated experts work closely together with customers to develop tailor-made solutions that meet individual requirements.

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





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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.

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Version 2, March 2017