

Why KENTANK has > 30 years' Expected Lifespan outdoors?



Because it contains > 2.3% Carbon Black - melt compounded into Polyethylene - to block and provide effective protection against the harmful effects of the Sun's Ultra Violet Rays

- Sun's Ultra Violet Rays ("U.V. Rays") degrade (destroy) rapidly all forms of plastic kept outdoors unless properly protected by stabilizers.
- Carbon Black is the best screen to block, and provide effective protection against, U.V. Rays.
- Although all black PE tanks may look the same at first glance, the expected lifespans of tanks outdoors can vary from 5 to 30 years - see Fig. 3 - depending on whether Carbon Black ("CB") is or is not used, how much of it is used and how it is incorporated into PE - whether it is melt compounded (a more expensive route) or merely dry mixed (a cheaper route).
- Methods of incorporating CB into PE is very critical. Only melt compounding of Natural PE and CB Master Batch (more expensive than Natural PE), through a separate Extrusion Process, ensures finer, uniform, dispersion - see Fig. 1 - of more than

2.3 % CB into PE and effective blockage of, and long term protection against, U.V. rays - Result - >30 years' expected lifespan.

- In dry mixing, one can only mix 0.3% CB into Natural PE powder. This is only ONE-SEVENTH of the required CB level and leads to poor dispersion - see Fig. 2 - therefore it does NOT effectively block NOR provide long term protection against U.V. Rays - Result - short lifespan.

EXPECTED LIFESPAN OF PE TANK OUTDOORS			
% of Carbon Black in Natural PE		Blending method	Expected Lifespan
NIL	%	None	2 - 3 years
0.3	%	Dry Mix	Upto 5 years
1.5	%	Melt Compounding	20 years
>2.3	%	Melt Compounding	30 years

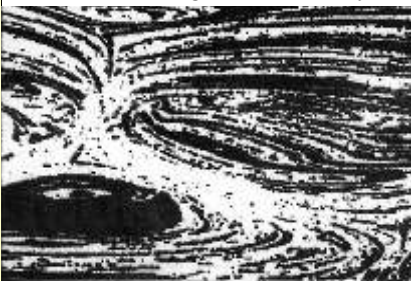
Levels of Carbon Black ("CB"), its dispersion into PE and their Dramatic Effect on Tank's "Expected Lifespan - see fig. 1, 2 & 3

Fig. 1 Sufficient CB, Excellent Dispersion & Effective Blockage of U.V. Rays



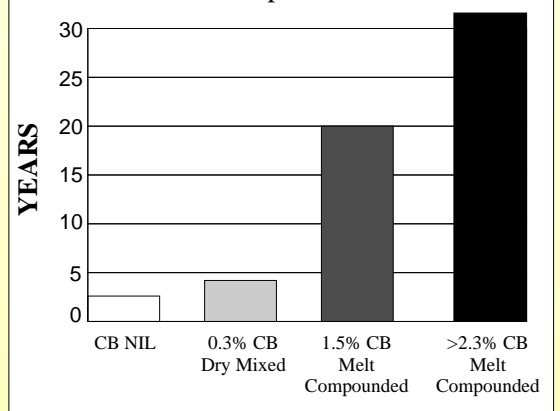
Made From PE With >2.3% CB -Melt Compounded
Expected Lifespan > 30 Years

Fig. 2 Insufficient CB, Poor Dispersion & Ineffective Blockage of U.V. Rays



Tank Made From PE With 0.3% CB -Dry Mixed
Expected Lifespan 5 Years

Fig. 3 PE Tank's Expected Lifespan Outdoors



AquaSanTec
Group companies
www.aquasantec.com

KENTAINERS Ltd. Nairobi Kenya
Tel: 254 020 251 9098 / 251 9099
Mobile: 0733 206 378 / 0707 490 699
info@kentainers.com www.kentainers.com

CRESTANKS Ltd. Kampala Uganda
Tel: +256 414 235 470, 348 973, 312 262 015/6
Mobile: 0714 291 755, 0773 041 239 Fax: 414 234 184
inquire@crestanks.co.ug, www.crestanks.com

AQUASAN Ltd. Kigali Rwanda
Tel: (00250) 503 285 Fax: 507 148
Mobile: (00250) 078 8306 833, 078 8307 833
Email: aquasanrw@gmail.com

AQUASAN s.a. Bujumbura Burundi
Tel (Fixe): (257) 295 511 58,
Portable: 799 662 99
Email: aquasan_burundi@yahoo.co.uk

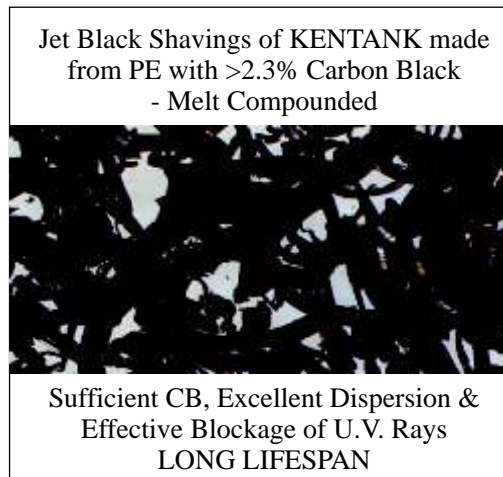
AQUASAN Juba South Sudan
Mobile nos: Gemtel +256 477 106 550
Sudani +249 122 143 232 Mobitel +249 910 708 366
Email: aquasan_ssjuba@yahoo.com

AQUASAN TZ Dar-es-salaam Tanzania
Tel: +255 22 2860 549 Fax: +255 22 2860 548
Mobile: (+255) 784 269 259, 786 530 884
Email: sales@aquasan.co.tz

AQUASAN Manufacturing Ethiopia PLC.
P.O.BOX 23169/1000 Addis Ababa Ethiopia
Tel: 0912 20 56 38, 0913 84 99 87, 011-663 51 03, 663 51 04
Fax 011-663 51 05 E-mail asmeplc@ethionet.et


Simple test of quality before you buy

- Before you buy a Black PE Tank, ask the supplier about its Carbon Black content and to shave it with a shaver or a very sharp knife or blade.
- KENTANK's Shavings are uniformly jet black.
- The Shavings of a similar black tank but made from PE with only 0.3% Carbon Black are grey and mostly even transparent. This is because this level of Carbon Black in PE is totally insufficient and its dispersion into PE is very poor leaving many areas of PE without any Carbon Black protective screen and PE is consequently exposed to the danger of rapid degradation (destruction) by U.V. Rays.




If you think all water tanks are the same, take a closer look


KENTANK MADE FROM PE WITH >2.3% CB - MELT COMPOUNDED




◀ Natural PE Pellets




▶ Carbon Black (CB) Master Batch with 50% Carbon Black & 50% Natural PE



▶ Extruded Black PE Pellets with >2.3 CB Melt Compounded from 95% Natural PE and 5% CB Master Batch




▶ Jet Black Powder from our above Black PE pellets




▶ Jet Black Shavings of KENTANK made from PE with >2.3% CB Melt Compounded

EXPENSIVE ROUTE - LONG LIFESPAN

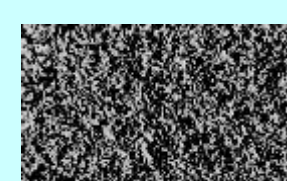
TANKS MADE FROM PE WITH ONLY 0.3% CB-DRY MIXED




◀ Natural PE Pellets



▶ Natural PE Powder



▶ PE Powder Dry Mixed with 0.3% Carbon Black Powder



▶ Grey and transparent Shavings of tank made from Natural PE powder Dry Mixed with only 0.3% CB

SHORT CUT - CHEAPER ROUTE - SHORT LIFESPAN

AquaSanTec Group companies www.aquasantec.com

AQUASAN Ltd. Kigali Rwanda
Tel: (00250) 503 285 Fax: 507 148
Mobile: (00250) 078 8306 833, 078 8307 833
Email: aquasanrw@gmail.com

AQUASAN s.a. Bujumbura Burundi
Tel (Fixe): (257) 295 511 58,
Portable: 799 662 99
Email: aquasan_burundi@yahoo.co.uk

AQUASAN Juba South Sudan
Mobile nos: Gemtel +256 477 106 550
Sudani +249 122 143 232 Mobitel +249 910 708 366
Email: aquasan_ssjuba@yahoo.com

AQUASAN TZ Dar-es-salaam Tanzania
Tel: +255 22 2860 549 Fax: +255 22 2860 548
Mobile: (+255) 784 269 259, 786 530 884
Email: sales@aquasan.co.tz

AQUASAN Manufacturing Ethiopia PLC.
P.O. BOX 23169/1000 Addis Ababa Ethiopia
Tel: 0912 20 56 38, 0913 84 99 87, 011-663 51 03, 663 51 04
Fax 011-663 51 05 E-mail asmeplc@ethionet.et

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CHOOSE THE TANK THAT'S MADE TO LAST