



WONPOONG

Geoloy®

PVC & PE Geomembrane Solutions For the Middle East

Engineered for unmatched durability and chemical resistance, redefining geosynthetic solutions for the toughest environments.

Geoloy® PVC Solutions

Wonpoong's geosynthetic solutions deliver exceptional durability and outstanding chemical resistance. The Geoloy series is engineered for a diverse range of geosynthetic reinforcement applications and terrain stabilization projects. With superior resistance to chemicals and weathering, Geoloy is specifically designed for critical use cases, including landfill liners, manufacturing pond systems, municipal wastewater ponds, geosynthetic containment products, oil storage, and various chemical protection requirements.



Exceptional Chemical Resistance

Geoloy sets the standard for chemical resilience, as demonstrated through rigorous immersion tests conducted in accordance with ASTM D543-87 (modified). These evaluations simulate real-world performance, assessing resistance to chemical reagents such as lubricants, fuels, cleaning agents, and acidic materials—common substances Geoloy products may encounter. As highlighted in the chemical resistance data sheets, Geoloy exhibits outstanding protection against a broad spectrum of chemical agents, ensuring reliability in demanding environments.

Designed for versatility and efficiency, Geoloy is compatible with a wide range of welding equipment, including high-frequency and hot-air welding systems. Its flexible yet structurally robust composition ensures easy fabrication while maintaining superior strength and stability, making it the ideal choice for seamless application in any project.



PVC Solutions

Chemical	Geoloy328	Geoloy530	Chemical	Geoloy328	Geoloy530
Acetic Acid (5%)	A	A	Lactic Acid	A	A
Acetic Acid (50%)	C	C	Linseed Oil	A	A
Acetone (99.5%)	C	C	Magnesium Chloride	T	T
ASTM #1 Oil	A	A	Magnesium Hydroxide	T	T
ASTM #2 Oil	A	A	Methanol	A	A
ASTM #3 Oil	A	A	Methyl Ethyl Ketone	C	C
Ammonium Phosphate	T	T	Methylene Chloride	C	C
Ammonium Sulfate	T	T	Mineral Spirits	A	A
Aqua Regia	T	T	Naphtha	A	A
ASTM Fuel A (=Isooctane)	A	A	Nitric Acid (5%)	A	A
ASTM Fuel B	B	B	Nitric Acid (50%)	C	C
ASTM Fuel C	B	B	Perchloroethylene	B	B
ASTM Fuel F (=Diesel)	A	A	Phenol	C	C
Benzene (99.5%)	C	C	Phosphoric Acid (50%)	A	A
Calcium Chloride (30%)	A	A	Phosphoric Acid (85%)	C	C
Calcium Chloride Solutions	T	T	Phthalate Plasticizer	C	C
Calcium Hydroxide	T	T	Salt Water (25%)	A	A
Chlorine Solutions (0.3%)	C	C	Sea Water	A	A
Corn oil	A	A	Sodium Acetate Solutions	T	T
Cyclohexane	B	B	Sodium Bisulfite Solutions	T	T
Ethanol (=Ethyl Alcohol)	A	A	Sodium Hydroxide (40%)	C	C
Ethyl Acetate	C	C	Sodium Phosphate	A	A
Ethylene Glycol	A	A	Sulfuric Acid (50%)	A	A
Furfural	T	T	Sulfuric Acid (97%)	B	B
Gasoline	B	B	Tannic Acid (10%)	C	C
Glycerin	A	A	Tannic Acid (40%)	C	C
Hydrochloric Acid (10%)	A	A	Tetrahydrofuran	C	C
Hydrochloric Acid (36%)	C	C	Toluene	C	C
Isopropyl Alcohol	A	A	Turpentine	A	A
Ivory Soap	A	A	Vegetable Oil	A	A
Kerosene	A	A	Xylene	C	C

- A Little or no effect
- B Somewhat effect
- C Severe effect
- T Likely to be severe effect

The information provided on chemical resistance and physical specifications is intended as a general reference. While focused on key variables encountered during actual use, it does not encompass all possible chemical or physical factors. The material has been rigorously tested under real-world and simulated service conditions.

Geoloy meets or exceeds industry standards, including ASTM D543-87 (modified) for chemical resistance, ASTM D6878 for weathering resistance, and additional standards such as ASTM D471, D741, D751, D1204, D2136, D3389, D4833, and D6878 for related physical properties as detailed in the data sheet.



With over five decades of industry expertise, cutting-edge manufacturing systems, and a dedicated R&D center, Geoloy has been engineered to deliver superior durability and resistance. Additionally, we offer advanced customization options to develop innovative solutions tailored to meet the unique needs of each client.

GTP1100P

Total Weight	Max. Width	Tensile Strength	Elongation	Tear Strength	Adhesion
gsm	m	N/5cm	%	N	N/5cm
DIN 53352	-	DIN 53354 (Cut Strip)	-	DIN 53356 (Single Tongue)	DIN 53357
1100	3.5	4315/3815	24/30	715/775	215/195

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Geoloy® PE Solutions

Geoloy PE is the lightweight evolution of geosynthetic excellence. Designed for ease of fabrication and effortless handling, Geoloy PE delivers the same outstanding durability and chemical resistance you trust, now with enhanced flexibility and efficiency. Perfect for projects where weight and adaptability are critical, Geoloy PE makes installation faster, simpler, and more cost-effective—without compromising on performance. Experience the future of geosynthetics with Geoloy PE, where strength meets convenience.



Unmatched Durability

Geoloy's performance is reinforced by decades of industry expertise and a cutting-edge manufacturing system. Comprehensive testing of dimensional stability, appearance, tensile and tear strength, and adhesion under varied exposure conditions demonstrates Geoloy's exceptional durability. With over 50 years of innovation and proven results, Geoloy is optimized to deliver unmatched reliability and strength.



Superior Weather Resistance

Engineered for stability and long-term performance, Geoloy has been tested by our state-of-the-art R&D center to withstand the effects of water, UV exposure, and extreme temperature fluctuations. These rigorous evaluations confirm Geoloy's compliance with ASTM D6878 standards, ensuring exceptional durability even under the harshest weather



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