WIGGINS
performance textile specialists

GEOLOY 530

TECHNICAL DATA SHEET

25th January 2023

Property	Method	Geoloy 530
Base Fabric Type	ASTM D 751	Polyester
Base Fabric Weight	ASTM D 751	6.5 oz/yd2 (220 gsm)
Finished Coated Weight	ASTM D 751	30 ±2.0 oz/yd2 (1,020 gsm ±68g/sq.m)
Thickness	ASTM D 751	0.85mm (33mils)
Tensile Strength(Cut Strip)	ASTM D 751	440 / 420 lb min. (1,957/1,868 N min.)
Tensile Strength(Grab)	ASTM D 751	560 / 600 lbf/inch min. (2,491/2,669 N min.)
Tear Strength(Trapezoid Tear)	ASTM D 751	78 / 73 lb. Min. (347/325 N min.)
Breaking Yield Strength	ASTM D 751 (Grab Tensile)	680 / 680 lb. Min. (3,025/3,025 N min.)
Low Temperature Resistance	ASTM D 2136 (4hrs-1/8in Mandrel)	Pass -35℃ (Pass -30℉)
Dimensional Stability	ASTM D 1204	0.25% max. each direction
Blocking Resistance	ASTM D 751 180℉/82℃	#1 Rating max.
Hydrostatic Resistance	ASTM D 751	800 psi min. (5.51 Mpa min.)
Adhesion	ASTM D 751	30 lbf/2" min. (132N/5cm)
Adhesion-Heat Welded Seam	ASTM D 751	40 lbf / 2" min. (175N/5cm)
Dead Load Seam Strength	ASTM D 751	Pass 240 lb./in. @ 70° F (Pass 1,068 N/2.54 cm @ 21° C) Pass 120 lb./in. @ 160° F (Pass 534 N/2.54 cm @ 70° C)
Abrasion Resistance	ASTM D 3389 H-18, 1kg Load	7,000 cycles before fabric exposure, 8.7mg/100 cycles max. weight loss
Water Absorption	ASTM D 471, Section 12 7 Days	0.001 kg/m² @70° F/21° C 0.003 kg/m² @212° F/100° C
Weathering Resistance	ASTM D 6878	-
Wicking	ASTM D 751	1/8 in
Bursting Strength	ASTM D 751	900 lb. min. (4,000 N min.)
Coefficient of Thermal Expansion/Contraction	ASTM D 696 (Static force : 100mN, Test temperature : -30 ~ +30° C)	0.64 x 10^{-5} cm/cm ° C max.
Puncture Resistance	ASTM D 4833	275 lb. min. (1,223 N min.)
Environmental/ Chemical Resistance Properties	ASTM D 741	Resistance Table

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CHEMICAL RESISTANCE CHART

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No	Chemical	Geoloy 530	No	Chemical	Geoloy 530
1	Acetic acid (5%)	A	32	Lactic acid	A
2	Acetic acid (50%)	C	33	Linseed oil	A
3	Acetone (99.5%)	C	34	Magnesium Chloride	T
4	ASTM #1 oil	A	35	Magnesium Hydroxide	T
5	ASTM #2 oil	A	36	Methanol	A
6	ASTM #3 oil	A	37	Methyl elhyl ketone	C
7	Ammonium Phosphate	T	38	Methylene chloride	C
8	Ammonium Sulfate	T	39	Mineral spirits	A
9	Aqua Regia	T	40	Naptha	A
10	ASTM Fuel A (=Isooctane)	A	41	Nitric acid (5%)	A
11	ASTM Fuel B	B	42	Nitric acid (50%)	C
12	ASTM Fuel C	B	43	Perchlorethylene	B
13	ASTM Fuel F (=Diesel)	A	44	Phenol	C
14	Benzene (99.5%)	C	45	Phosphoric acid (50%)	A
15	Calcium Chloride (30%)	A	46	Phosphoric acid (85%)	C
16	Calcium Chloride Solutions	T	47	Phthalate plasticiser	C
17	Calcium Hydroxide	T	48	Salt water (25%)	A
18	Chlorine solution (0.3%)	C	49	Sea water	A
19	Corn oil	A	50	Sodium Acetate Solutions	T
20	Cyclohexane	B	51	Sodium Bisulfite Soutions	T
21	Ethanol (=Ethyl Alcohol)	A	52	Sodium hydroxide (40%)	C
22	Ethyl acetate	C	53	Sodium phosphate	A
23	Ethylene Glycol	A	54	Sulphuric acid (50%)	A
24	Furfural	T	55	Sulphuric acid (97%)	B
25	Gasoline	B	56	Tannic acid (10%)	C
26	Glycerins	A	57	Tannic acid (40%)	C
27	Hydrochloric acid (10%)	A	58	Tetrahydrofuran	C
28	Hydrochloric acid (36%)	C	59	Toluene	C
29	Isopropyl alcohol	A	60	Turpentine	A
30	Ivory Soap	A	61	Vegetable oil	A
31	Kerosene	A	62	Xylene	C

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

The chemical data shown are the result of laboratory test for the chemical resistance as a guide only. The rating were on the basis of a 28 days immersion test (as per ASTM D543-87 modified) at the chemical test equipment.
The result show the ability of the material to meet its performance by simulating the actual performance test.

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