

testing data booklet

CHEMICAL TESTING RESULTS



Solicor-CR has robust chemical resistance and stout scores on lab-ready testing, providing designers and builders with the perfect combination of performance and aesthetics.

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Chemical resistance tests are performed in accordance with the Scientific Equipment and Furniture Association (SEFA) recommended practices for lab worksurfaces.

FIRE-RATED TESTING RESULTS



Solicor-CR is rated **CLASS A** for fire and heat resistance, adding yet another strong attribute for aligning it squarely in the laboratory grade worksurface market.

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Fire-rated tests are performed in accordance with ASTM International fire-test-response standard E84 to measure response to heat and flame under controlled conditions.

PHYSICAL TESTING RESULTS



Solicor-CR is simply tough, tough enough not to worry about dings and mars from everyday wear and tear: its scratch and impact test results easily put those concerns to rest.

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Physical tests are performed in accordance with EN-438 standards for sheets based on thermosetting resins.

 **chemical testing results**

CHEMICAL (% BY VOL.)	METHOD	RATING
Acetate, Amyl	A	0
Acetate, Ethyl	A	0
Acetic Acid, 98%	B	0
Acetone	A	0
Acid Dichromate, 5%	B	1
Alcohol, Butyl	A	0
Alcohol, Ethyl	A	0
Alcohol, Methyl	A	0
Ammonium Hydroxide, 28%	B	1
Benzene	A	0
Carbon Tetrachloride	A	0
Chloroform	A	0
Chromic Acid, 60%	B	2
Cresol	A	0
Dichloroacetic Acid	A	1
Dimethylformamide	A	0
Dioxane	A	0
Ethyl Ether	A	0
Formaldehyde, 37%	A	0
Formic Acid, 90%	B	0
Furfural	A	1
Gasoline	A	0
Hydrochloric Acid, 37%	B	0
Hydrofluoric Acid, 48%	B	0
Hydrogen Peroxide, 30%	B	0

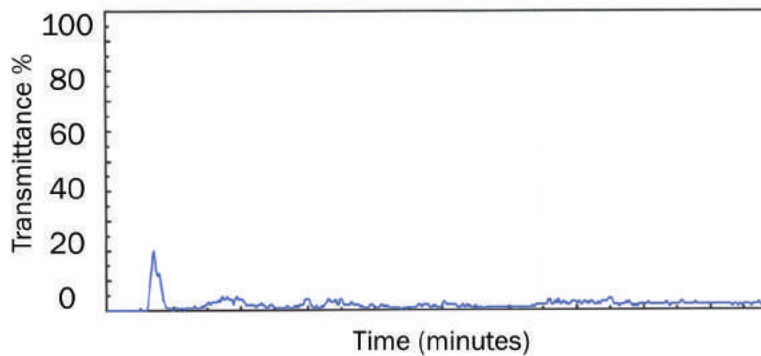
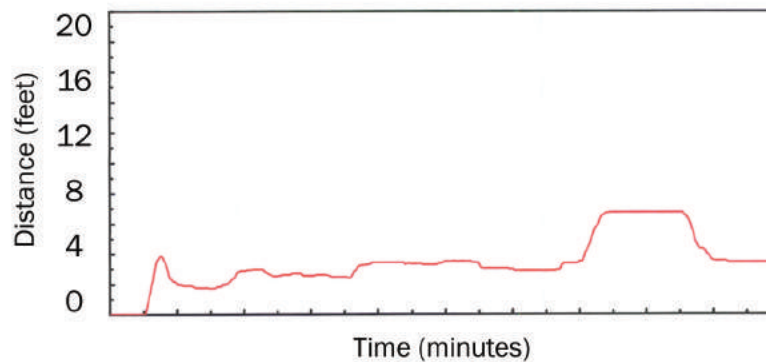
CHEMICAL (% BY VOL.)	METHOD	RATING
Iodine, Tincture of	B	2
Methyl Ethyl Ketone	A	0
Methylene Chloride	A	0
Monochlorobenzene	A	0
Naphthalene	A	0
Nitric Acid, 20%	B	1
Nitric Acid, 30%	B	1
Nitric Acid, 70%	B	1
Phenol, 90%	A	0
Phosphoric Acid, 85%	B	0
Silver Nitrate, Saturated	B	0
Sodium Hydroxide, 10%	B	0
Sodium Hydroxide, 20%	B	0
Sodium Hydroxide, 40%	B	0
Sodium Hydroxide, Flake	B	0
Sodium Sulfide, Saturated	B	0
Sulfuric Acid, 33%	B	0
Sulfuric Acid, 77%	B	1
Sulfuric Acid, 96%	B	0
Sulfuric Acid, (77%) & Nitric Acid (70%), equal parts	B	1
Toluene	A	0
Trichloroethylene	A	0
Xylene	A	0
Zinc Chloride, Saturated	B	0

KEY | 0 = No effect, 1 = Excellent, 2 = Good, 3 = Fair

Chemical resistance tests are performed in accordance with the Scientific Equipment and Furniture Association (SEFA) recommended practices for laboratory worksurfaces.

 **fire-rated testing results**

Time to Ignition = 00.48 minutes
Maximum Flamespread Distance = 06.74 feet
Time to Maximum Spread = 07.45 minutes
Flame Spread Index = 25
Smoke Developed Index = 20



Fire-rated tests are performed in accordance with ASTM International fire-test-response standard E84-17a to measure the response of materials, products, or assemblies to heat and flame under controlled conditions.

Ⓡ physical testing results

PROPERTY	TEST	UNIT	SOLICOR-CR Results		REQUIREMENT	FULFILLED
Resistance to surface wear	EN 438:2 : 10	Revolutions	350	150 [MIN]		YES
Resistance to scratching	EN 438:2 : 25	Appearance	5	3 [MIN]		YES
Resistance to dry heat (160°C)	EN 438:2 : 16	Appearance	5	4 [MIN]		YES
Resistance to immersion in boiling water	EN 438:2 : 12	Appearance	Surface	5	4 [MIN]	YES
			Edge	5	3 [MIN]	YES
		Increase	Mass	0.3%	3.0% [MAX]	YES
			Thickness	0.1%	4.0% [MAX]	YES
Dimensional stability at elevated temperature	EN 438:2 : 17	Increase	Longitudinal	0.3%	0.5% [MAX]	YES
			Transversal	0.3%	0.8% [MAX]	YES
Light fastness	EN 438:2 : 27	Appearance	Surface	5	4 [MIN]	YES
			Core	5	3 [MIN]	YES
Resistance to water vapor	EN 438:2 : 14	Appearance	5	4 [MIN]		YES
Resistance to crazing	EN 438:2 : 24	Appearance	Surface	5	4 [MIN]	YES
			Edge	3	3 [MIN]	YES
Modulus of elasticity (MOE)	EN ISO 178	MPa	Longitudinal	15811	9000 [MIN]	YES
			Transversal	10520	9000 [MIN]	YES
Bending strength (MOR)	EN ISO 178	MPa	Longitudinal	201	80 [MIN]	YES
			Transversal	151	80 [MIN]	YES
Density	EN ISO 1183	g/cm ³	1.51	1.4 [MIN]		YES

APPEARANCE KEY | 1 = Fail, 2 = Fair, 3 = Good, 4 = Excellent, 5 = No effect

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