

GURIT PVC HT

STRUCTURAL FOAM CORE

Gurit PVC HT is a closed cell, cross-linked, high temperature resistance PVC foam. It provides superior strength to weight ratio for all composite applications.

Other key features of Gurit PVC HT include outstanding chemical resistance, negligible water absorption, and excellent thermal insulation capabilities. It is compatible with most common resin systems including epoxy, polyester and vinylester.

Gurit PVC HT is available in all standard cut patterns and finishes possible.



- Optimized properties
- High temperature processing up to 140°C
- Suitable for all sandwich composites applications
- Superior strength and stiffness to weight ratio
- Self extinguishing
- Outstanding chemical resistance
- DNV GL, RINA, and Lloyds certified

MECHANICAL PERFORMANCE

TYPE	TEST METHOD	UNITS	GURIT® PVC60 HT	GURIT® PVC80 HT	GURIT® PVC100 HT	GURIT® PVC130 HT
Foam Color	-	-	Pink	Light Yellow	Light Orange	Orange
Nominal Sheet Size	-	mm	1120 x 2400	1005 x 2150	940 x 2030	850 x 1900
		Inches	44.1 x 94.5	39.6 x 84.6	37.0 x 79.9	33.5 x 74.8
Nominal Density	ASTM D1622	Kg/m ³	60	80	100	130
		Lb/ft ³	3.7	5.0	6.2	8.1
Density Range	ASTM D1622	Kg/m ³	54-69	72-92	90-115	120-150
		Lb/ft ³	3.4-4.3	4.5-5.7	5.6-7.2	7.5-9.4
Compressive Strength	ASTM D1621-10	MPa	1.01	1.63	2.40	2.94
		psi	146	213	290	290
Compressive Modulus	ASTM D1621-10	MPa	49	74	-	-
		psi	7107	10733	-	-
Compressive Modulus	ASTM D1621-73	MPa	65	96	160	207
		psi	9427	13924	23206	30023
Shear Strength	ASTM C273	MPa	0.86	1.26	1.73	2.32
		psi	125	183	145	290
Shear Modulus	ASTM C273	MPa	21	29	46	59
		psi	3046	4206	6672	8557
Shear Elongation at break	ASTM C273	%	29	32	29	24
Tensile Strength	ASTM D1623	MPa	1.98	2.84	3.23	3.85
		psi	287	412	435	435
Tensile Modulus	ASTM D1623	MPa	97	138	133	166
		psi	14069	20015	19290	24076
HDT	DIN 53424	°C	135	135	135	135
		°F	275	275	275	275
Thermal Conductivity	ASTM C518	W/(m·K)	0.032	0.034	0.035	0.036
		BTU·in/(h·ft ² ·°F)	0.222	0.234	0.242	0.249

Users are advised to contact Gurit to confirm that Gurit PVC HT is compatible with their particular processing parameters.

HEALTH AND SAFETY

The following points must be considered:

1. Skin contact must be avoided by wearing protective gloves. Gurit recommends the use of disposable nitrile gloves for most applications. The use of barrier creams is not recommended, but to preserve skin condition a moisturizing cream should be used after washing.
2. Protective clothing should be worn when mixing, laminating or sanding. Contaminated work clothes should be thoroughly cleaned before re-use.
3. Eye protection should be worn if there is a risk of resin, hardener, solvent or dust entering the eyes. If this occurs flush the eye with water for 15 minutes, holding the eyelid open, and seek medical attention.
4. Ensure adequate ventilation in work areas. Respiratory protection should be worn if there is insufficient ventilation. Solvent vapors should not be inhaled as they can cause dizziness, headaches, loss of consciousness and can have long term health effects.
5. If the skin becomes contaminated, then the area must be immediately cleansed. The use of resin-removing cleansers is recommended. To finish, wash with soap and warm water. The use of solvents on the skin to remove resins etc must be avoided.

Washing should be part of routine practice:

- before eating or drinking
- before smoking & vaping
- before using the lavatory
- after finishing work

6. The inhalation of sanding dust should be avoided and if it settles on the skin then it should be washed off. After more extensive sanding operations a shower/bath and hair wash is advised.

Gurit produces a separate full Safety Data Sheet for all hazardous products. Please ensure that you have the correct SDS to hand for the materials you are using before commencing work.

NOTICE

All advice, instruction or recommendation is given in good faith but the selling Gurit entity (the Company) only warrants that advice in writing is given with reasonable skill and care. No further duty or responsibility is accepted by the Company. All advice is given subject to the terms and conditions of sale (the Conditions) which are available on request from the Company or may be viewed at Gurit's Website: www.gurit.com/terms-and-conditions.aspx

The Company strongly recommends that Customers make test panels in the final process conditions and conduct appropriate testing of any goods or materials supplied by the Company prior to final use to ensure that they are suitable for the Customer's planned application. Such testing should include testing under conditions as close as possible to those to which the final component may be subjected. The Company specifically excludes any warranty of fitness for purpose of the goods other than as set out in writing by the Company. Due to the varied nature of end-use applications, the Company does, in particular, not warrant that the test panels in the final process conditions and/or the final component pass any fire standards.

The Company reserves the right to change specifications and prices without notice and Customers should satisfy themselves that information relied on by the Customer is that which is currently published by the Company on its website. Any queries may be addressed to the Technical Services Department.

Gurit is continuously reviewing and updating literature. Please ensure that you have the current version by contacting your sales contact and quoting the revision number in the bottom left-hand corner of this page.

CONTACT INFORMATION

Please see local contact information at www.gurit.com

24-HOUR CHEMICAL EMERGENCY NUMBER

For advice on chemical emergencies, spillages, fires or exposures:

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