

Gurit® PVC HT

STRUCTURAL FOAM CORE

- Optimised 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

INTRODUCTION

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.

MECHANICAL PERFORMANCE

Type	Test Method	Units	Gurit® PVC60 HT	Gurit® PVC80 HT	Gurit® PVC100 HT	Gurit® PVC130 HT
Foam Colour	-	-	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	-	-
	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.

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.

TECHNICAL CONTACT INFORMATION

For all other enquiries such as technical queries:

Telephone + 44 1983 828000 (08:30 – 17:00 GMT)
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24-HOUR CHEMICAL EMERGENCY NUMBER

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