

# 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, RINA, Lloyds and Germanischer Lloyd 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
Foam Colour	-	-	Pink	Light Yellow
Nominal Sheet Size	-	mm	1120 x 2400	1005 x 2150
		Inches	44.1 x 94.5	39.6 x 84.6
Nominal Density	ASTM D1622	Kg/m <sup>3</sup>	60	80
		Lb/ft <sup>3</sup>	3.7	5.0
Density Range	ASTM D1622	Kg/m <sup>3</sup>	54-69	72-92
		Lb/ft <sup>3</sup>	3.4-4.3	4.5-5.7
Compressive Strength	ASTM D1621-10	MPa	1.01	1.63
		psi	146	213
Compressive Modulus	ASTM D1621-10	MPa	49	74
		psi	7107	10733
	ASTM D1621-73	MPa	65	96
		psi	9427	13924
Shear Strength	ASTM C273	MPa	0.86	1.26
		psi	125	183
Shear Modulus	ASTM C273	MPa	21	29
		psi	3046	4206
Shear Elongation at break	ASTM C273	%	29	32
Tensile Strength	ASTM D1623	MPa	1.98	2.84
		psi	287	412
Tensile Modulus	ASTM D1623	MPa	97	138
		psi	14069	20015
HDT	DIN 53424	°C	135	135
		°F	275	275
Thermal Conductivity	ASTM C518	W/(m·K)	0.032	0.034
		BTU·in/(h·ft <sup>2</sup> ·°F)	0.222	0.234

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

## NOTICE

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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

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## 24-HOUR CHEMICAL EMERGENCY NUMBER

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

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