3D|CORE™
the structure in the core

Material Properties of 3D|CORE Products						
Foam Type		**XPS**	**XPS**	**XPS**	**PET 100**	**PET 150**
Structure		**HX**	**RB**	**DT**	**HX**	**HX**
Density (kg/m³)	Basic foam	45	45	45	110	145
	3D|CORE Hybrid*	90	126	162	182	222
Shear Modulus (MPa)	Basic foam	15	15	15	20,00	30,00
	3D|CORE Hybrid*	31	45	55	52,0	62,0
Shear Strength (MPa)	Basic foam	0,43	0,43	0,43	0,52	0,91
	3D|CORE Hybrid*	0,8	1,1	1,3	1,08	1,47
Compression Modulus (MPa)	Basic foam	30	30	30	40,0	60,0
	3D|CORE Hybrid*	98	149	200	159	196
Compression Strength (MPa)	Basic foam	0,7	0,7	0,7	1,00	1,20
	3D|CORE Hybrid*	2,1	5,0	6,7	4,6	4,8

Remark: The values above are based on measurements on specimen of sandwich panels made by 3D|CORE.
These panels were produced with an Epoxy system and vacuum injection technology. These values can differ depending on the manufacturing process.
Please use the above values only as an indication for your analysis and please provide your own measurements. (NH_22.01.2018)

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Notes:

* Hybrid means foam core and structure filled with Epoxy resin.
  Basic foam means foam without structure.

Structures

HX: HEXAGON

RB: RHOMBUS

DT: DELTA

Tolerances

Foam sheets:

length – mm 1015 ± 5
width – mm 405 ± 5
thickness – mm ± 0,3

Resin uptake

Surface:	Structure:
XPS 200g/m²/side	XPS and PET
PET 400g/m²/side	90g/m²/mm

The resin uptake depends on the process as well. Please only use these formula as an indication value.